

***Consumables and Parts  
for Elemental Analysers and  
Isotope Ratio Mass Spectrometers***



**Website: [OEALabs.com](http://OEALabs.com)  
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## About OEA Laboratories

OEA Labs manufacture products and provide services for organic elemental analysis (OEA) and elemental analysis isotope ratio mass spectrometry (EA-IRMS) and other related areas.

The company draws on many years of experience, is equipped with modern instrumentation and employs advanced manufacturing techniques.

We are committed to manufacture and market OEA products to the highest standard which meet or surpass the expectations of our customers.

## People

Stuart Carter, the technical director of OEA Labs, has worked in the business of elemental microanalysis and stable isotopes for almost forty years and acquired an in-depth knowledge of instrumentation, methods, materials and manufacturing. He is supported by a competent team of technicians, engineers, production and administration staff.

## Product Range

We are developing products, services and methods to support your requirements, from routine analysis and off-the-shelf products to unique analytical methods and bespoke products.

If you cannot find the product or service that you require please give us a call.

## Instruments Supported



We manufacture and supply a comprehensive range of Elemental Analyser Consumables and Spares for the following manufacturers' instruments:-

- **Thermo / CE Instruments / Fisons / Carlo Erba**
- **Sercon / PDZ Europa / Europa**
- **Costech**
- **Perkin Elmer**
- **Elementar**
- **Eurovector**
- **Leco**

We are constantly adding to our product line and list of instruments supported. Please contact us if you cannot find the item that you require.

## Product Performance Guarantee

OEA Labs place great emphasis on delivering quality products and are highly skilled in the manufacture, production and purification of products for Elemental Analysis.

If you would like to try any of our products before you buy, please contact us and we will be pleased to send you a trial quantity of our products absolutely free without obligation. Our products have been developed and tested to perform to the highest standards.

All of our products and services are unconditionally guaranteed to meet your expectations. If we fail to meet your standards just return the product for a full refund.

## Suitability for EA-IRMS

We guarantee that all of our products are suitable for the measurement of samples for both Total Element and Isotope Ratio. Internal quality control is carried out within our own laboratories and by external independent EA and IRMS laboratories.

**Isotope Ratio Mass Spectrometers - "all products manufactured by OEA Labs are of the highest quality and are recommended for use with Elemental Analysers that are interfaced to IRMS instruments."**

## Product Origin

The majority of our products are manufactured in our laboratories and workshops in Callington, Cornwall, UK. The use of OEM part numbers does not infer that products are of OEM origin. We acknowledge all trademarks.

## Health and Safety (MSDS) & Labelling (CPL)

Health and safety information is available for our relevant products in the form of MSDS (Material Safety Data Sheets). From June 2015 our products are labelled to comply with CLP (Classification, Labelling & Packaging) Regulations 2015. Some material on the shelves may continue to be labelled according to CHIPS until June 2017.

## Environmental Policy

We do not discharge hazardous effluents or atmospheric emissions in our manufacturing processes. We recycle materials where possible and package our products responsibly. We can dispose of customers used materials that we have supplied.

## Free Technical Support

We provide free technical support relating to our products or elemental analysis topics. If you require information on how you can repair or identify a fault on your own instrumentation, we can help you and supply any new or used parts which you might require.

## Pricing

We aim to be competitive on price without compromising quality or performance. We believe that our prices reflect the quality and service that our customers expect.

We supply many prestigious laboratories throughout the world and have grown to become a recognised supplier of advanced products and materials for elemental analysis and IRMS.

We can offer discounts on larger orders and for regular customers. We positively welcome and encourage small orders. We are here to serve your requirements large and small.

Please contact us for our latest prices and to discuss any competitive discounting.





## Ordering & Delivery



### Contact Details

Our products can be ordered directly from the factory at OEA Laboratories Limited in the UK or through one of our distributors.

**Post:** OEA Laboratories Limited  
The Generator Quay House,  
The Gallery, Kings Wharf, The Quay  
Exeter, EX2 4AN, United Kingdom

**Tel:** +44 (0) 1579 384174  
**Fax:** +44 (0) 1579 384174  
**VAT:** GB931879587  
**Website:** [OEALabs.com](http://OEALabs.com)  
**eStore:** [EStore.OEALabs.com](http://EStore.OEALabs.com)

**For technical information:**  
email [Technical@OEALabs.com](mailto:Technical@OEALabs.com)

**For quotations, orders and other sales information:**  
email [Sales@OEALabs.com](mailto:Sales@OEALabs.com)

### Ordering

We accept orders by email, telephone, fax, post or through our eStore. All orders should be accompanied by a Purchase Order Number where possible. Please state your delivery address, invoice address, contact name and contact telephone number. To avoid confusion, please state our part number, product description, pack size and quantity required on your order. For intra-EU supplies we require your VAT number or VAT exemption certificate to invoice you without a Value Added Tax charge.

### Payment Methods

We can set up immediate 30 day invoice account facilities for bona fide companies, organisations and academic institutions. We can accept payment by credit or debit card for both domestic and international transactions. Some of our international customers pay us by cheque as they would pay their domestic suppliers. Payments can also be made by international bank transfer, internet transfer or BACS. We currently invoice in Pounds Sterling, Euros, US Dollars, Canadian Dollars, Australian Dollars or New Zealand Dollars. It is possible for us to invoice in other currencies so please enquire.

We are approved to accept secure credit or debit card payments by telephone, post, email or our eStore. We do not store credit or debit card numbers although we do store other customer details in the normal course of our business. Your credit or debit card will not be debited until your order is delivered and approved. Please state that you wish to pay by this method at the time of ordering.

### Delivery Methods and Times

The majority of orders are dispatched by our carriers or by post within two working days from receipt of your order. The time in transit will vary according to destination - normally one to two days within the UK, three or four days within the USA and the EU and five to seven days for international orders. We will advise you immediately if there is any expected delay.

If required we can have our carriers send email tracking information to you directly or provide you with tracking numbers for your order.

### Delivery Charges

#### Delivery within the UK:

We have no minimum order charge.

Packing and carriage is charged at domestic shipping rates of £12.50. If we need to ship your order in more than one consignment you will only be charged once for delivery.

Carriage may be supplied free of charge on larger orders by prior agreement.

#### Delivery outside the UK:

We have no minimum order charge.

Packing and carriage on international orders are charged at cost. Please contact us on +44 (0) 1579 384174 or email [Sales@OEALabs.com](mailto:Sales@OEALabs.com) for a quotation. We can provide proof of shipping charges if required.

OEA Labs cannot be liable for additional charges such as customs clearance, duty or local taxes in countries other than the UK.

Carriage may be supplied free of charge on larger orders by prior agreement.

### International Shipments of Dangerous Goods

Some of our products are subject to the Dangerous Goods Regulations (DGR), the International Maritime Dangerous Goods Regulations (IMDG) and the International Carriage of Dangerous Goods by Road Regulations (ADR).

Shipments containing dangerous goods require additional packing and documentation. Some hazardous items cannot be shipped in the same package as others because of incompatibilities. Shipments outside of the United Kingdom by air, sea or road for these items may be subject to additional charges depending on the destination or carrier.



**Stop. Think. Check.**

OEA Labs is approved by the International Air Transport Association (IATA) and other relevant associations to pack and ship Dangerous Goods for transport by air, sea or road.

Most dangerous goods shipments made by OEA Labs are in Limited Quantities (LQ) or Excepted Quantities (EQ). LQ is generally applicable for pack sizes in excess of 30gm and are subject to additional charges and documentation. For this reason we may supply some products in multiple smaller packs so shipments can be made under EQ. EQ does not require documentation providing that the appropriate packaging, packing and labelling instructions are followed.

We are also approved to ship small quantities (1gm) of Dangerous Goods in de minimis quantities without documentation or surcharge. This is particularly useful for reference standards and additives. These are clearly marked in our catalogue.

Generally the charge made by our carriers for international delivery of Dangerous Goods is about GBP45. We might not be able to ship Dangerous Goods to some destinations or the costs may be very high due to the delivery chain.

Please contact us for information regarding the shipment of Dangerous Goods. These items are clearly marked in our catalogue with the following labels.





## Tin Pressed Capsules for Solid Samples

OEA Labs sample capsules and discs are manufactured and inspected to a high specification. We then package our capsules in aluminium tins to eliminate any organic contamination and annoying static electricity that can occur with some plastic packaging.

Standard clean capsules are totally suitable for routine use without the need for further cleaning but for demanding applications our ultra clean capsules are recommended. For convenience both standard clean and ultra clean capsules are available in plastic trays of 96 capsules.

Tin and silver discs are useful when analysing glass fibre filters commonly used in pollution and oceanographic studies. They also simplify the weighing of sticky or fibrous materials.

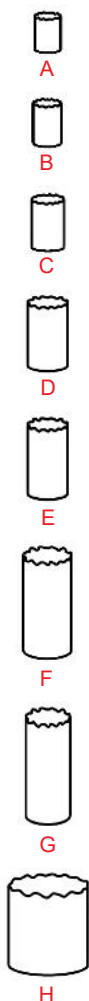
Liquid absorbing pads are used to weigh non-volatile liquid samples using pressed tin or silver capsules. Type N is suitable for CHN and type O for CHN, Sulphur and Oxygen (elemental) analysis. Simply insert into the bottom of the capsule and dispense the appropriate volume of sample onto the pad using a micro-syringe or micro-pipette. Two or more pads can be used for larger samples. Liquid absorbing pads are pre-treated for low blank values.

Note: Silver capsules may become slightly tarnished when in contact with air for long periods. Heating to 375°C in air will generally remove any oxidation. Long term storage under an inert gas is recommended for critical applications.

Note: Ultrasonic cleaning of tin or silver capsules is not recommended as the thin foils we use in their manufacture can become brittle and disintegrate during the cleaning process.



### Pressed Tin Capsules - *Standard Clean*



Ref	CatNo	Pack	Description	Height	Diameter	Weight
<b>A</b>	C11130.100P C11130.500P C11130.096P	100 pack 500 pack 96 pack tray	<b>Tin Capsules</b> , pressed, standard clean	4mm	3.2mm	8mg
<b>B</b>	C11240.100P C11240.500P C11240.096P	100 pack 500 pack 96 pack tray	<b>Tin Capsules</b> , pressed, standard clean	5mm	3.5mm	12mg
<b>C</b>	C11350.100P C11350.500P C11350.096P	100 pack 500 pack 96 pack tray	<b>Tin Capsules</b> , pressed, standard clean	6mm	4mm	17mg
<b>D</b>	C11470.100P C11470.250P C11470.096P	100 pack 250 pack 96 pack tray	<b>Tin Capsules</b> , pressed, standard clean	8mm	5mm	30mg
<b>E</b>	C11480.100P C11480.250P C11480.096P	100 pack 250 pack 96 pack tray	<b>Tin Capsules</b> , pressed, standard clean	9mm	5mm	33mg
<b>F</b>	C11590.050P C11590.200P	50 pack 200 pack	<b>Tin Capsules</b> , pressed, standard clean	12mm	6mm	62mg
<b>G</b>	C11570.050P C11570.200P	50 pack 200 pack	<b>Tin Capsules</b> , pressed, standard clean	12.5mm	5mm	62mg
<b>H</b>	C11504.050P	50 pack	<b>Tin Capsules</b> , pressed, standard clean	10mm	10mm	62mg

### Pressed Tin Capsules - *Ultra Clean*

Ref	CatNo	Pack	Description	Height	Diameter	Weight
<b>A</b>	C71130.100P C61130.096P	100 pack 96 pack tray	<b>Tin Capsules</b> , pressed, ultra clean	4mm	3.2mm	8mg
<b>B</b>	C71240.100P C61240.096P	100 pack 96 pack tray	<b>Tin Capsules</b> , pressed, ultra clean	5mm	3.5mm	12mg
<b>C</b>	C71350.100P C61350.096P	100 pack 96 pack tray	<b>Tin Capsules</b> , pressed, ultra clean	6mm	4mm	17mg
<b>D</b>	C71470.100P C71470.250P C61470.096P	100 pack 250 pack 96 pack tray	<b>Tin Capsules</b> , pressed, ultra clean	8mm	5mm	30mg
<b>E</b>	C71480.100P C71480.250P C61480.096P	100 pack 250 pack 96 pack tray	<b>Tin Capsules</b> , pressed, ultra clean	9mm	5mm	33mg
<b>F</b>	C71590.050P	50 pack	<b>Tin Capsules</b> , pressed, ultra clean	12mm	6mm	62mg
<b>H</b>	C71504.050P	50 pack	<b>Tin Capsules</b> , pressed, ultra clean	10mm	10mm	62mg

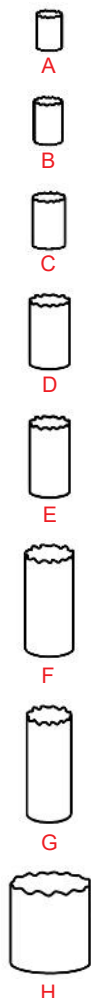
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## Sample Encapsulation, Handling & Preparation

### Silver Pressed Capsules for Solid Samples

#### Pressed Silver Capsules - *Standard Clean*



Ref	CatNo	Pack	Description	Height	Diameter	Weight
<b>A</b>	C12130.100P	100 pack	<b>Silver Capsules</b> , pressed, standard clean	4mm	3.2mm	10mg
	C12130.500P	500 pack				
	C12130.096P	96 pack tray				
<b>B</b>	C12240.100P	100 pack	<b>Silver Capsules</b> , pressed, standard clean	5mm	3.5mm	15mg
	C12240.500P	500 pack				
	C12240.096P	96 pack tray				
<b>C</b>	C12350.100P	100 pack	<b>Silver Capsules</b> , pressed, standard clean	6mm	4mm	21mg
	C12350.500P	500 pack				
	C12350.096P	96 pack tray				
<b>D</b>	C12470.100P	100 pack	<b>Silver Capsules</b> , pressed, standard clean	8mm	5mm	36mg
	C12470.250P	250 pack				
	C12470.096P	96 pack tray				
<b>E</b>	C12480.100P	100 pack	<b>Silver Capsules</b> , pressed, standard clean	9mm	5mm	38mg
	C12480.250P	250 pack				
	C12480.096P	96 pack tray				
<b>F</b>	C12590.050P	50 pack	<b>Silver Capsules</b> , pressed, standard clean	12mm	6mm	73mg
	C12590.200P	200 pack				
<b>G</b>	C12570.050P	50 pack	<b>Silver Capsules</b> , pressed, standard clean	12.5mm	5mm	73mg
	C12570.200P	200 pack				
<b>H</b>	C12504.050P	50 pack	<b>Silver Capsules</b> , pressed, standard clean	10mm	10mm	73mg

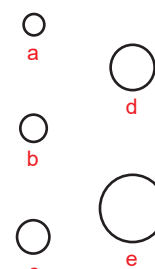
#### Pressed Silver Capsules - *Ultra Clean*

Ref	CatNo	Pack	Description	Height	Diameter	Weight
<b>A</b>	C72130.100P	100 pack	<b>Silver Capsules</b> , pressed, ultra clean	4mm	3.2mm	10mg
	C62130.096P	96 pack tray				
<b>B</b>	C72240.100P	100 pack	<b>Silver Capsules</b> , pressed, ultra clean	5mm	3.5mm	15mg
	C62240.096P	96 pack tray				
<b>C</b>	C72350.100P	100 pack	<b>Silver Capsules</b> , pressed, ultra clean	6mm	4mm	21mg
	C62350.096P	96 pack tray				
<b>D</b>	C72470.100P	100 pack	<b>Silver Capsules</b> , pressed, ultra clean	8mm	5mm	36mg
	C72470.250P	250 pack				
	C62470.096P	96 pack tray				
<b>E</b>	C72480.100P	100 pack	<b>Silver Capsules</b> , pressed, ultra clean	9mm	5mm	38mg
	C72480.250P	250 pack				
	C62480.096P	96 pack tray				
<b>F</b>	C72590.050P	50 pack	<b>Silver Capsules</b> , pressed, ultra clean	12mm	6mm	73mg
<b>H</b>	C72504.050P	50 pack	<b>Silver Capsules</b> , pressed, ultra clean	10mm	10mm	73mg

### Absorbitz Liquid Absorbing Pads for Non-Volatile Liquid Samples

Liquid absorbing pads are used to weigh non-volatile liquid samples into pressed tin or silver capsules. Type N is suitable for CHN and type O for CHN, Sulphur and Oxygen (elemental) analysis. Simply insert into the bottom of the capsule and dispense the appropriate volume of sample onto the pad using a micro-syringe or micro-pipette. Suitable for most non-volatile liquids. Pre-treated for low blank background. Use two or more for larger samples.

Ref	CatNo	Pack	Description	Capsule Diameter	Capacity
<b>a</b>	M14035.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	3.2 to 3.5mm	10ul
	M14036.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	3.2 to 3.5mm	5ul
<b>b</b>	M14040.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	4mm	15ul
	M14041.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	4mm	8ul
<b>c</b>	M14050.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	5mm	20ul
	M14051.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	5mm	10ul
<b>d</b>	M14060.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	6 to 6.5mm	30ul
	M14061.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	6 to 6.5mm	15ul
<b>e</b>	M14100.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	10mm	80ul
	M14101.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	10mm	40ul



Continued . . .



## Tin Smooth Walled Capsules

### Smooth Wall Tin Capsules (for liquids) - **Standard Clean**

Ref	CatNo	Pack	Description	Height	Diameter	Weight
<b>A</b>	C21105.100P	100 pack	<b>Tin Capsules</b> , smooth wall, capillary, standard clean	5.5mm	1.06mm	
<b>B</b>	C21115.100P	100 pack	<b>Tin Capsules</b> , smooth wall, standard clean	5mm	2mm	
<b>C</b>	C21126.100P	100 pack	<b>Tin Capsules</b> , smooth wall, standard clean	6mm	2.9mm	
<b>D</b>	C21135.100P	100 pack	<b>Tin Capsules</b> , smooth wall, standard clean	5.5mm	3.5mm	
<b>E</b>	C21137.100P	100 pack	<b>Tin Capsules</b> , smooth wall, standard clean	7mm	3.5mm	
<b>F</b>	C21142.100P	100 pack	<b>Tin Capsules</b> , smooth wall, standard clean	9mm	3.5mm	89mg



### Smooth Wall Tin Capsules (for liquids) - **Ultra Clean**

Ref	CatNo	Pack	Description	Height	Diameter	Weight
<b>A</b>	C81105.100P	100 pack	<b>Tin Capsules</b> , smooth wall, capillary, ultra clean	5.5mm	1.06mm	
<b>B</b>	C81115.100P	100 pack	<b>Tin Capsules</b> , smooth wall, ultra clean	5mm	2mm	
<b>C</b>	C81126.100P	100 pack	<b>Tin Capsules</b> , smooth wall, ultra clean	6mm	2.9mm	
<b>D</b>	C81135.100P	100 pack	<b>Tin Capsules</b> , smooth wall, ultra clean	5.5mm	3.5mm	
<b>E</b>	C81137.100P	100 pack	<b>Tin Capsules</b> , smooth wall, ultra clean	7mm	3.5mm	
<b>F</b>	C81142.100P	100 pack	<b>Tin Capsules</b> , smooth wall, ultra clean	9mm	3.5mm	89mg

## Silver Smooth Walled Capsules

### Smooth Wall Silver Capsules (for liquids) - **Standard Clean**

Ref	CatNo	Pack	Description	Height	Diameter	Weight
<b>G</b>	C22110.050P	50 pack	<b>Silver Capsules</b> , smooth wall, standard clean	4.5mm	2mm	33mg
<b>H</b>	C22142.100P	100 pack	<b>Silver Capsules</b> , smooth wall, standard clean	9mm	3.5mm	100mg



### Smooth Wall Silver Capsules (for liquids) - **Ultra Clean**

Ref	CatNo	Pack	Description	Height	Diameter	Weight
<b>G</b>	C82110.050P	50 pack	<b>Silver Capsules</b> , smooth wall, ultra clean	4.5mm	2mm	33mg
<b>H</b>	C82142.100P	100 pack	<b>Silver Capsules</b> , smooth wall, ultra clean	9mm	3.5mm	100mg

## Capsule Trays & Lids

CatNo	Pack	Description	Holes	Rows	Columns	Hole Diameter	Hole Depth
<b>M10200.001E</b>	1 each	<b>Capsule Tray and Lid</b> , flat bottom wells	96	8	12	6.75mm	11.25mm
<b>M10205.001E</b>	1 each	<b>Capsule Tray and Lid</b> , flat bottom wells	48	6	8	10mm	17.25mm
<b>M10210.001E</b>	1 each	<b>Capsule Tray and Lid</b> , flat bottom wells	24	4	6	16mm	17.25mm



## Micro-Pipettes

Ref	CatNo	Pack	Description
<b>A</b>	<b>M41101.250P</b>	250 pack	<b>Micro-pipettes</b> , 1 microlitre, end to end filling, 29mm length, with pipetting aid
	<b>M41102.250P</b>	250 pack	<b>Micro-pipettes</b> , 2 microlitres, end to end filling, 29mm length, with pipetting aid
	<b>M41105.250P</b>	250 pack	<b>Micro-pipettes</b> , 5 microlitres, end to end filling, 29mm length, with pipetting aid
<b>B</b>	<b>M41205.250P</b>	250 pack	<b>Micro-pipettes</b> , 5 microlitres, graduated 1 ul steps, 29mm length, with pipetting aid
<b>C</b>	<b>M41100.001E</b>	1 each	<b>Micro-pipetting Aid</b> , spare
<i>Larger sizes available. Please enquire.</i>			







## Tin & Silver Discs for Filters, Fibrous or Sticky Samples

### Tin Discs (for filters, fibrous or sticky samples) - **Standard Clean**

Ref	CatNo	Pack	Description	Diameter	Weight
<b>A</b>	C41130.100P	100 pack	Tin Discs, standard clean	11mm	8mg
<b>B</b>	C41240.100P	100 pack	Tin Discs, standard clean	13.5mm	12mg
<b>C</b>	C41350.100P	100 pack	Tin Discs, standard clean	16mm	17mg
<b>D</b>	C41470.100P	100 pack	Tin Discs, standard clean	21mm	30mg
<b>E</b>	C41504.100P	100 pack	Tin Discs, standard clean	30mm	62mg

### Tin Discs (for filters, fibrous or sticky samples) - **Ultra Clean**

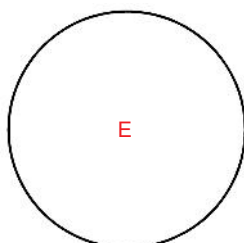
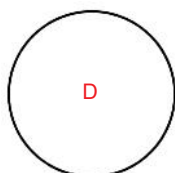
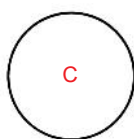
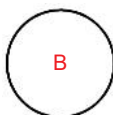
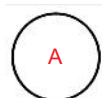
Ref	CatNo	Pack	Description	Diameter	Weight
<b>A</b>	C91130.100P	100 pack	Tin Discs, ultra clean	11mm	8mg
<b>B</b>	C91240.100P	100 pack	Tin Discs, ultra clean	13.5mm	12mg
<b>C</b>	C91350.100P	100 pack	Tin Discs, ultra clean	16mm	17mg
<b>D</b>	C91470.100P	100 pack	Tin Discs, ultra clean	21mm	30mg
<b>E</b>	C91504.100P	100 pack	Tin Discs, ultra clean	30mm	62mg

### Silver Discs (for filters, fibrous or sticky samples) - **Standard Clean**

Ref	CatNo	Pack	Description	Diameter	Weight
<b>A</b>	C42130.100P	100 pack	Silver Discs, standard clean	11mm	10mg
<b>B</b>	C42240.100P	100 pack	Silver Discs, standard clean	13.5mm	15mg
<b>C</b>	C42350.100P	100 pack	Silver Discs, standard clean	16mm	21mg
<b>D</b>	C42470.100P	100 pack	Silver Discs, standard clean	21mm	36mg
<b>E</b>	C42504.100P	100 pack	Silver Discs, standard clean	30mm	73mg

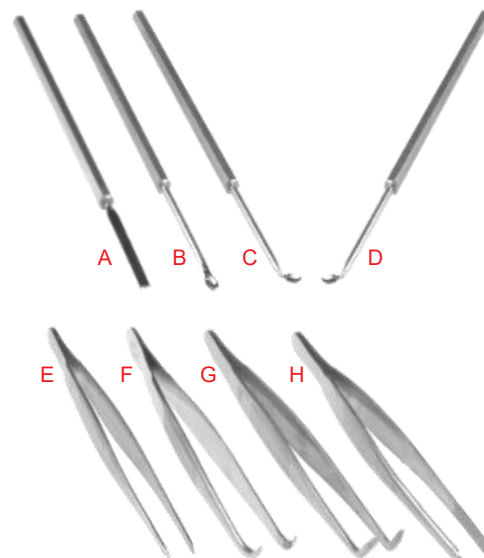
### Silver Discs (for filters, fibrous or sticky samples) - **Ultra Clean**

Ref	CatNo	Pack	Description	Diameter	Weight
<b>A</b>	C92130.100P	100 pack	Silver Discs, ultra clean	11mm	10mg
<b>B</b>	C92240.100P	100 pack	Silver Discs, ultra clean	13.5mm	15mg
<b>C</b>	C92350.100P	100 pack	Silver Discs, ultra clean	16mm	21mg
<b>D</b>	C92470.100P	100 pack	Silver Discs, ultra clean	21mm	36mg
<b>E</b>	C92504.100P	100 pack	Silver Discs, ultra clean	30mm	73mg



## Micro-Spatulas and Forceps

Ref	CatNo	Pack	Description
<b>A</b>	M11100.001E	1 each	Micro-spatula, 3mm wide upturned blade, hex handle, 140mm long
	M11120.001E	1 each	Micro-spatula, straight spoon, 3 x 5mm, hex handle, 150mm long
<b>B</b>	M11121.001E	1 each	Micro-spatula, straight spoon, 4 x 6mm, hex handle, 170mm long
	M11122.001E	1 each	Micro-spatula, straight spoon, 5 x 8mm, hex handle, 190mm long
	M11110.001E	1 each	Micro-spatula, cranked spoon, right hand use, 3 x 5mm, hex handle, 150mm long
<b>C</b>	M11111.001E	1 each	Micro-spatula, cranked spoon, right hand use, 4 x 6mm, hex handle, 170mm long
	M11112.001E	1 each	Micro-spatula, cranked spoon, right hand use, 5 x 8mm, hex handle, 190mm long
	M11115.001E	1 each	Micro-spatula, cranked spoon, left hand use, 3 x 5mm, hex handle, 150mm long
<b>D</b>	M11116.001E	1 each	Micro-spatula, cranked spoon, left hand use, 4 x 6mm, hex handle, 170mm long
	M11117.001E	1 each	Micro-spatula, cranked spoon, left hand use, 5 x 8mm, hex handle, 190mm long
<b>E</b>	M11220.001E	1 each	Forceps, straight pointed end, 130mm overall length
<b>F</b>	M11230.001E	1 each	Forceps, curved pointed end, 130mm overall length
<b>G</b>	M11240.001E	1 each	Forceps, bent pointed end, 130mm overall length
<b>H</b>	M11210.001E	1 each	Forceps, straight blunt end, 130mm overall length





## TOC Block for Total Organic Carbon Analysis by Elemental Analyser

- Microprocessor temperature control from ambient +5°C to 150°C
- Digital temperature display with 0.1°C
- Digital timer 1 minute to 99hrs 59min or continuous
- Interchangeable aluminium blocks available for 30 off 8 x 5mm capsules or 20 off 10 x 10mm capsules
- Heated blocks available for other capsule sizes (please enquire)
- Blocks easily removed for loading, cooling and cleaning
- Single block and dual block models
- USB interface allows data logging facility
- Stainless steel heating chamber provides uniform heat transfer
- Capsule flaring tool provided for easy acid addition
- Extraction tool for safe block removal



Ref	CatNo	Pack	Description
A	N30110.001E	1 each	<b>Single TOC Block Heater</b> , complete with single block for 30 off 8x5mm capsules, extraction tool and capsule flaring tool, 220/240vac, 210mm Wide, 300mm Deep, 120mm High
	N30112.001E	1each	<b>Single TOC Block Heater</b> , complete with single block for 20 off 10x10mm capsules, extraction tool and capsule flaring tool, 220/240vac, 210mm Wide, 300mm Deep, 120mm High
B	N30120.001E	1 each	<b>Dual TOC Block Heater</b> , complete with 2 blocks for 60 off 8x5mm capsules, extraction tool and capsule flaring tool, 220/240vac, 210mm Wide, 300mm Deep, 120mm High
	N30122.001E	1 each	<b>Dual TOC Block Heater</b> , complete with 2 blocks for 40 off 10x10mm capsules, extraction tool and capsule flaring tool, 220/240vac, 210mm Wide, 300mm Deep, 120mm High
	N30124.001E	1 each	<b>Dual TOC Block Heater</b> , complete with 1 block for 30 off 8x5mm capsules and 1 block for 20 off 10x10mm capsules, extraction tool and 2 capsule flaring tools, 220/240vac, 210mm Wide, 300mm Deep, 120mm High
C	N30470.001E	1 each	<b>TOC Block</b> , 30 off 8x5mm capsules, with extraction tool
	N30504.001E	1each	<b>TOC Block</b> , 20 off 10x10mm capsules, with extraction tool
D	N30210.001E	1 each	<b>TOC Block Flaring Tool</b> , for 8x5mm capsules
	N30212.001E	1 each	<b>TOC Block Flaring Tool</b> , for 10x10mm capsules
E	M32160.001E	1 each	<b>Acid Syringe</b> , 500 microlitre, Hamilton, 1750LT, 81201, Luer tip

**Heated blocks are available for other capsules sizes. Please enquire.**



## Sample Encapsulation, Handling & Preparation

### ArgoFile Maxima Micro-Drill for Sample Preparation

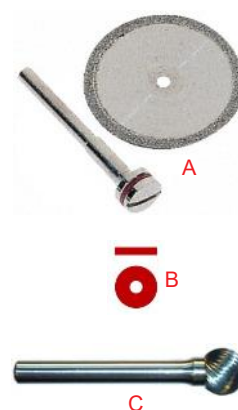


CatNo	Pack	Description
N20100.001E	1 each	Maxima Micro-Drill Handpiece, 35,000rpm, with 2.35mm Collet
N20105.001E	1 each	Maxima Micro-Drill Handpiece, 40,000rpm, with 2.35mm Collet
N20110.001E	1 each	Maxima Micro-Drill Controller, PS220
N20120.001E	1 each	Maxima Micro-Drill Foot Rheostat, TPF-77
N20130.001E	1 each	Handset Cradle, TRC-02
N20140.002E	1 set	Spare Brushes, TPH65-164
N20150.001E	1 each	Collet Wrench, TPH65-175
N20160.001E	1 each	Chuck Joint Wrench, TPH65-176
N20300.001E	1 each	2.35mm (3/32") Collet Chuck, TPH65-117A
N20310.001E	1 each	3.0mm Collet Chuck, TPH65-117B
N20320.001E	1 each	3.175mm Collet Chuck, TPH65-117C
N20330.001E	1 each	Reducing Collet, 3.0mm to 0.4mm, RM-3004
N20331.001E	1 each	Reducing Collet, 3.0mm to 0.5mm, RM-3005
N20332.001E	1 each	Reducing Collet, 3.0mm to 0.6mm, RM-3006
N20333.001E	1 each	Reducing Collet, 3.0mm to 0.7mm, RM-3007
N20334.001E	1 each	Reducing Collet, 3.0mm to 0.8mm, RM-3008
N20335.001E	1 each	Reducing Collet, 3.0mm to 0.9mm, RM-3009
N20336.001E	1 each	Reducing Collet, 3.0mm to 1.0mm, RM-3010
N20337.001E	1 each	Reducing Collet, 3.0mm to 1.1mm, RM-3011
N20338.001E	1 each	Reducing Collet, 3.0mm to 1.2mm, RM-3012
N20339.001E	1 each	Reducing Collet, 3.0mm to 1.3mm, RM-3013
N20340.001E	1 each	Reducing Collet, 3.0mm to 1.4mm, RM-3014
N20341.001E	1 each	Reducing Collet, 3.0mm to 1.5mm, RM-3015
N20342.001E	1 each	Reducing Collet, 3.0mm to 1.6mm, RM-3016
N20343.001E	1 each	Reducing Collet, 3.0mm to 1.7mm, RM-3017
N20344.001E	1 each	Reducing Collet, 3.0mm to 1.8mm, RM-3018
N20345.001E	1 each	Reducing Collet, 3.0mm to 1.9mm, RM-3019
N20346.001E	1 each	Reducing Collet, 3.0mm to 2.0mm, RM-3020
N20349.001E	1 each	Reducing Collet, 3.0mm to 2.35mm, RM-3024
N20360.001E	1 each	Reducing Collet, 3.175mm to 1.6mm, RM-3216
N20361.001E	1 each	Reducing Collet, 3.175mm to 2.35mm, RM-3224
N20370.001E	1 each	Reducing Collet, 2.35mm to 1.6mm, RM-2416

### Cutting Wheels and Burrs

Ref	CatNo	Pack	Description	Diameter	Shank Diameter	Length
A	N25010.001E	1 each	Cutting Wheel, diamond, with mandrel, screw and fibre washer	22mm	3.2mm 1/8"	44mm
B	N25025.010P	10 pack	Replacement Fibre Washer, for diamond cutting wheel	5.5mm	1/16" bore	1mm thick
C	N26010.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	0.79mm	2.381mm 3/32"	44mm
	N26012.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	1.0mm	3mm	44mm
	N26014.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	1.4mm	2.381mm 3/32"	44mm
	N26016.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	1.4mm	3mm	44mm
	N26018.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	1.8mm	3mm	44mm
	N26020.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	1.83mm	2.381mm 3/32"	44mm
	N26022.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	3.0mm	3mm	44mm
	N26024.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	3.175mm	3.175mm 1/8"	38mm
	N26026.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	4.7mm	3mm	38mm
	N26028.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	6.0mm	3mm	38mm
	N26030.001E	1 each	Spherical (Ball) Burr, carbide, standard cut	6.35mm	3.175mm 1/8"	44mm
	N26130.001E	1 each	Cylindrical Burr, carbide, standard cut	6.35mm ID x 13mmL	3.175mm 1/8"	44mm

We can supply hundreds of other micro-drill cutting & grinding tools. Please enquire.





## Combustion Reagents for N, NC, CHN, CHNS, NCS & S Analysis



OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
R11000.025G R11000.050G R11000.100G	25gm 50gm 100gm	<b>Chromium Oxide</b> , granular, 0.85 to 1.7mm, purified to eliminate tube devitrification	338 22900	SC0001	011001		E10101 E10101-IG		
R11050.100G	100gm	<b>Chromium Oxide on Alumina</b> , granular, 0.85 to 1.7mm, purified to eliminate tube devitrification			011016				
R11100.025G R11100.100G	25gm 100gm	<b>Nickel Chromium Oxide</b> , (EA1000), granular, 0.85 to 1.7mm, purified to eliminate tube devitrification							V241-0092
R11200.025G R11200.100G	25gm 100gm	<b>Niobium Pentoxide</b> , for NCS, granular, 0.85 to 1.7mm			011039				
R11300.025G R11300.100G	25gm 100gm	<b>Cerium Oxide</b> , granular, 0.85 to 1.7mm				05.00-0469 03.67-9915			
R12000.025G R12000.100G	25gm 100gm	<b>Cobaltous/IC Oxide</b> , granular, 0.85 to 1.7mm	338 22800		011002	05.00-1070			
R12050.025G R12050.050G R12050.100G	25gm 50gm 100gm	<b>Cobaltous/IC Oxide, silvered</b> , granular, 0.85 to 1.7mm	338 24500	SC0087	011007		E10160		
R13000.025G R13000.050G R13000.100G R13000.250G	25gm 50gm 100gm 250gm	<b>Copper Oxide</b> , wire form, 4 x 0.5mm	338 21710	SC0003	011003	05.00-1039		502-190	0240-1092
R13010.025G R13010.050G R13010.100G R13010.250G	25gm 50gm 100gm 250gm	<b>Copper Oxide</b> , coarse, wire form, 6 x 0.65mm							
R13050.050G	50gm	<b>Copper Oxide, silvered</b> , wires, 4 x 0.5mm							
R13055.050G	50gm	<b>Copper Oxide, isotope grade</b> , wires, 4 x 0.5mm							
R13100.050G R13105.050G R13110.050G R13120.050G	50gm 50gm 50gm 50gm	<b>Copper Oxide</b> , granular, 0.1 to 0.5mm <b>Copper Oxide</b> , granular, 0.5 to 1.0mm <b>Copper Oxide</b> , granular, <b>isotope grade</b> , 0.1 to 0.5mm <b>Copper Oxide</b> , granular, <b>silvered</b> , 0.1 to 0.5mm							
R14000.025G R14000.100G	25gm 100gm	<b>Tungstic Oxide</b> , for CHNS/NCS/S, granular, high density, 0.85 to 1.7mm	338 24600		011008		E10152 E10152-IG	502-181	
R14020.060G	60gm	<b>Tungstic Oxide</b> , for CHNS/NCS/S, granular, low density for Elementar systems, 0.35 to 1.7mm				11.02-0008			
R14050.025G R14050.100G	25gm 100gm	<b>Tungstic Oxide, on Alumina</b> , granular, 0.85 to 1.7mm	338 35420	SC0025	011009				
R14060.050G R14060.100G	50gm 100gm	<b>Tungstic Oxide on Zirconia</b> , (EA6000), granular, 0.85 to 1.7mm		SC0034					N241-0278
R15000.040G R15000.060G	40gm 60gm	<b>Oxidation Catalyst</b> , mixture of Pt on alumina pellets & copper oxide wires	338 40000		011010				
R15100.025G R15100.100G	25gm 100gm	<b>Silver Tungstate on Magnesium Oxide</b> , granular, 0.85 to 1.7mm							0240-1344
R16000.025G R16000.100G	25gm 100gm	<b>Universal Fluorine Reagent</b> , granular, 0.85 to 1.7mm, for CHN analysis of fluorine compounds, replaces silvered cobaltous/IC oxide, eliminates double water peak, protects the GC column from attack							
R13210.002G R13250.002G	2gm 2gm	<b>Platinised Copper Oxide</b> , 10% Pt, granular, 0.1 to 0.5mm <b>Platinised Copper Oxide</b> , 10% Pt, granular, 0.5 to 1.0mm							
R15205.030G R15210.030G R15225.030G R15250.030G	30gm 30gm 30gm 30gm	<b>Platinum Catalyst</b> , 0.5% Pt on 3mm Alumina Pellets <b>Platinum Catalyst</b> , 1% Pt on 3mm Alumina Pellets <b>Platinum Catalyst</b> , 2.5% Pt on 3mm Alumina Pellets <b>Platinum Catalyst</b> , 5% Pt on 3mm Alumina Pellets	338 39055			05.00-1380 03.00-2262			





## Reagents for Elemental Analysers



### Copper, Tungsten & Chromium Reduction Reagents



Reduction reagents in elemental analysis serve to remove excess oxygen from combustion and to ensure complete reduction of other products of reaction. OEA Labs have enhanced the capacity of these products for maximum tube life and economy.

They can be confidently used in single or dual tube applications for both elemental and isotope analysis. OEA Labs reduction reagents are packed in argon purged sealed ampoules for long storage life.



OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
R31050.100G R31050.250G R31050.500G	100gm 250gm 500gm	<b>Copper Reduction Reagent, wires, fine</b> , reduced, 4 x 0.5mm	338 35300	SC0002 SC0071	011022 011030	05.00-0699		502-189 502-304	0240-1362
R32050.040G R32050.100G	40gm 100gm		338 35310		011017				
R33050.100G R33050.250G R33050.500G	100gm 250gm 500gm	<b>Copper Reduction Reagent, wires, coarse</b> , reduced, 6 x 0.65mm	338 35312		011014 011012 011013		E10120 E10121		N241-1527
R34050.050G R34050.100G R34050.250G R34050.500G	50gm 100gm 250gm 500gm		538 35312				E10130 E10131		
R35140.080G R35140.090G	80gm 90gm	<b>Copper Electrolytic, wire strands</b> , 140 x 0.37mm, high purity for sulphur determination	338 35311 338 35313						
R35110.060G R35110.070G	60gm 70gm								
R36050.100G R36050.250G R36050.500G	100gm 250gm 500gm	<b>Copper Reduction Reagent, granules</b> , reduced, 0.1 to 0.5mm							
R36100.100G R36100.250G R36100.500G	100gm 250gm 500gm								0240-0117
R37010.500G R37010.2.5K	500gm 2.5kg	<b>Tungsten Reduction Reagent, granules</b> , 0.5 to 2.0mm, 10 to 35 mesh				12.00-0040			
E25300.025P	25pack					12.01-1008			
E25310.001K	1 kit	<b>Tungsten Kit</b> , complete with 500gm of Tungsten and 25 stainless gauze spacers				12.01-0045			
R37200.025G R37200.050G R37200.100G R37200.500G	25gm 50gm 100gm 500gm	<b>Chromium Reduction Reagent</b> , granular powder, 325 mesh, 45 micron, 0.045mm, for water analysis							
R37210.025G R37210.050G R37210.100G R37210.500G	25gm 50gm 100gm 500gm								
R37220.025G R37220.050G R37220.100G R37220.500G	25gm 50gm 100gm 500gm	<b>Chromium Reduction Reagent</b> , granular powder, 75 mesh, 200 micron, 0.2mm, for water analysis							



## Pyrolysis Reagents for Oxygen & Isotopic Hydrogen Analysis



Catalysed pyrolysis reagents are used to achieve complete reaction stoichiometry at lower temperatures than would normally be required.

We can produce these reagents in other metal concentrations, catalytic materials, carriers and/or granule sizes. Please enquire if you have a requirement.



OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
R21000.005G	5gm	Carbon Nickelised, 10% Ni, granular, 0.3 to 0.85mm							
R21005.005G	5gm	Carbon Nickelised, 20% Ni, granular, 0.3 to 0.85mm	338 23800		011018		E10146		
R21010.005G	5gm	Carbon Nickelised, 30% Ni, granular, 0.3 to 0.85mm		SC0051					
R21100.005G	5gm	Carbon, high purity, granular, 0.3 to 0.85mm				03.67-9910			
R22000.005G	5gm	Carbon Platinised, 10% Pt, granular, 0.3 to 0.85mm							
R22005.005G	5gm	Carbon Platinised, 20% Pt, granular, 0.3 to 0.85mm							
R25000.025G R25000.050G R25000.100G	25gm 50gm 100gm	Glassy Carbon Chips, granular, 2 to 3mm	338 23923 111 7400		SC1384 SC0039		E10521-IG		
R25010.025G R25010.050G R25010.100G	25gm 50gm 100gm	Glassy Carbon Chips, granular, 3 to 4mm	338 23934						
R25020.025G R25020.050G R25020.100G	25gm 50gm 100gm	Glassy Carbon Chips, granular, 2 to 4mm				11.64-0050			
R81300.002G	2gm	Nickel Wool, very fine wire, unreeled	338 25000		021032	22.131 365			
R81380.001E	1each	Platinum Gauze, plain woven, 12mm x 150mm							N241-1273
* R90010.001M R90010.010M	1ml 10ml	Chloropentane Doping Reagent, for helium carrier doping							
R81710.012P	12 discs	Graphite Felt Pads, 15mm diameter, 12mm thick				23.00-0098			
R81720.012P	12 discs	Graphite Felt Pads, 26mm diameter, 12mm thick				11.40-0014/4			

\* Please note that 1gm pack quantities are NOT subject to Dangerous Goods shipment regulations or charges.

## Platinum, Copper & Nickel Reaction Wires for GC-C-IRMS

Our high purity platinum, copper and nickel wires are perfect for packing into ceramic tubes for GC-C-IRMS applications. Sold on standard length spooled packs or available in longer lengths on request.

CatNo	Pack	Description	Wire Diameter
M21100.001M	1 metre	Platinum Wire, high purity, spooled	0.1mm
M21100.002M	2 metres	Platinum Wire, high purity, spooled	0.1mm
M22100.010M	10 metres	Copper Wire, high purity, spooled	0.1mm
M22125.010M	10 metres	Copper Wire, high purity, spooled	0.125mm
M23100.010M	10 metres	Nickel Wire, high purity, spooled	0.1mm
M23125.010M	10 metres	Nickel Wire, high purity, spooled	0.125mm

Please see 'Ceramic Tubes and Materials' section for ceramic reaction tubes.





## Reagents for Elemental Analysers



### Reaction Tube Packing Materials

In order to pack reaction and scrubbing tubes, good quality packing materials are required to separate and hold the reagents in place. Because this is often a question of personal choice we offer a wide range of materials and grades. Whatever your choice you will find these materials to be of the highest quality and purity.



OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
R81200.005G R81200.010G R81200.020G R81200.050G	5gm 10gm 20gm 50gm	Silica (Quartz) Wool, very fine, 2 micron	338 22200	SC0006	021026 021038	03.67-9908	E10514	502-177	0240-1118
R81210.005G R81210.010G R81210.050G	5gm 10gm 50gm	Silica (Quartz) Wool, medium, 4 micron	338 22200 108 7770	SC0006	021026 021038	03.67-9908	E10514	502-177	0240-1118
R81220.005G R81220.010G R81220.050G	5gm 10gm 50gm	Silica (Quartz) Wool, coarse, 9 micron							
R81230.005G R81230.010G R81230.050G	5gm 10gm 50gm	Silica (Quartz) Wool, medium to coarse, 4 to 12 micron							
R81514.025P	25pack	Silica (Quartz) Wool Discs, 14mm diameter x 4mm thick, binder free							
R81516.025P	25pack	Silica (Quartz) Wool Discs, 16mm diameter x 4mm thick, binder free							
R81519.025P	25pack	Silica (Quartz) Wool Discs, 19mm diameter x 4mm thick, binder free							
R81522.025P	25pack	Silica (Quartz) Wool Discs, 22mm diameter x 4mm thick, binder free							
R81614.025P	25pack	Silica (Quartz) Wool Discs, 14mm diameter x 7mm thick, binder free							
R81616.025P	25pack	Silica (Quartz) Wool Discs, 16mm diameter x 7mm thick, binder free							
R81619.025P	25pack	Silica (Quartz) Wool Discs, 19mm diameter x 7mm thick, binder free							
R81622.025P	25pack	Silica (Quartz) Wool Discs, 22mm diameter x 7mm thick, binder free							
R81710.012P	12 discs	Graphite Felt Pads, 15mm diameter, 12mm thick				23.00-0098			
R81720.012P	12 discs	Graphite Felt Pads, 26mm diameter, 12mm thick				11.40-0014/4			
R81100.100G	100gm	Copper Wool, very fine wire, unreelted							
R81300.002G	2gm	Nickel Wool, very fine wire, unreelted	338 2500	SC01051	021024		E10510		
R81380.001E	1each	Platinum Gauze, plain woven, 12mm x 150mm							N241-1273
R81350.002G R81350.010G R81350.050G	2gm 10gm 50gm	Silver Wool, 99.99%, very fine wire, unreelted	338 24900 111 7430	SC0007	021032	22.13-1365			
R81355.010G	10gm	Silvered Copper Wool, fine wire, unreelted, lower cost alternative for pure silver wool but equally effective							
R81360.001E	1 each	Silver Gauze, 99.99%, plain woven, 12.5 x 150mm							N241-0145
R81365.001E	1 each	Silver Gauze, 99.99%, plain woven, 150 x 150mm							N241-0145
R81450.050G	50gm	Glass Wool, fine						501-081 763-265	
R81500.050G	50gm	Cotton Wool, fine				05.00-1715			
R83050.050G	50gm	Silica (Quartz) Chips, clear quartz, granular, 0.1 to 0.5mm							
R83055.050G	50gm	Silica (Quartz) Chips, clear quartz, granular, 0.5 to 0.85mm							
R83060.050G R83060.100G	50gm 100gm	Silica (Quartz) Chips, clear quartz, granular, 0.85 to 1.7mm	338 22300	SC0004	021025	03.69-7907	E10513		
R83065.050G	50gm	Silica (Quartz) Chips, clear quartz, granular, 1.7 to 2.5mm							
R83075.050G	50gm	Silica (Quartz) Chips, clear quartz, granular, 2.5 to 4mm				03.67-9900			
R83100.040G	40gm	Ceramic (Corundum) Spheres, high purity alumina, 3mm diameter				50.00-8467			
R81250.020G	20gm	Ceramic Wool, high purity alumina, fine				05.00-0086			
R90000.001E R90005.001E	1each 1each	Nickel Sheet Reaction Tube Lining, 130 x 65 x 0.15mm Nickel Sheet Reaction Tube Lining, 130 x 130 x 0.15mm							



## Scrubbing Tube Reagents

OEA Labs offer a number of effective reagents for scrubbing out water, carbon dioxide and acid gases from helium carrier gas. These are based on magnesium perchlorate flakes and sodium hydroxide absorbed on an inert carrier material. Unfortunately these reagents above 25gm pack sizes are classified as Dangerous Goods in Limited Quantities for shipping by air, sea or road and can be subject to shipping surcharges and additional documentation. By packaging down to 25gm packs and with some additional measures we are able to ship these as Dangerous Goods in Excepted Quantities without shipping surcharges or documentation. Regrettably we are not able to ship Dangerous Goods even in Excepted Quantities to some locations due to local regulations. For elemental analysis we offer materials (Ecodrone and Soda Lime) which are not subject to shipping restrictions.



## Carbon Dioxide and Acid Gas Scrubbing Reagents

OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
R41000.100G R41000.200G	100gm 200gm	<b>Soda Lime</b> , carbon dioxide adsorbent, granular, 1 to 2.5mm, <i>is a non-Dangerous Goods equivalent to Carbosorb, EMSorb or Ascarite</i>	338 35235	SC0017	020130 021037	05.00-1537	E10505 E10503	502-174	0240-0115
R41005.200G	200gm	<b>Soda Lime Self Indicating</b> , carbon dioxide adsorbent, granular, 2 to 5mm, white to violet indicator, <i>is a non-Dangerous Goods equivalent to Carbosorb, EMSorb or Ascarite</i>	338 35230	SC0017	020130 021037	05.00-1537	E10505 E10503	502-174	0240-0115
R41010.025G R41010.100G	25gm 100gm	<b>Carbosorb</b> , carbon dioxide adsorbent, granular, 0.78 to 1.4mm (12 to 20 mesh), <i>Dangerous Goods for shipment by road, sea or air - consider replacing with soda lime</i>	338 22000	SC0017	021020	03.67-9900	E10505 E10503	502-174	0240-0115
R41015.025G R41015.100G	25gm 100gm	<b>Carbosorb</b> , carbon dioxide adsorbent, granular, 1.4 to 2.8mm (6 to 12 mesh), <i>Dangerous Goods for shipment by road, sea or air</i> <b>Sorry, this product is no longer available</b>		SC0016					
R41020.025G R41020.100G	25gm 100gm	<b>EMSorb</b> , carbon dioxide adsorbent, granular, 0.8 to 1.6mm, <i>Dangerous Goods for shipment by road, sea or air - consider replacing with soda lime</i>	338 22000	SC0017	021020	03.67-9900	E10505 E10503	502-174	0240-0115
R41025.025G R41025.100G	25gm 100gm	<b>EMSorb</b> , carbon dioxide adsorbent, granular, 1.6 to 3mm, <i>Dangerous Goods for shipment by road, sea or air - consider replacing with soda lime</i>		SC0016					
R41030.025G R41030.100G	25gm 100gm	<b>Ascarite II</b> , carbon dioxide adsorbent, granular, 0.6 to 1.4mm, <i>Dangerous Goods for shipment by road, sea or air - consider replacing with soda lime</i>	338 22000 106 8660	SC0017	021020	03.67-9900	E10505 E10503	502-174	0240-0115
R41035.025G R41035.100G	25gm 100gm	<b>Ascarite II</b> , carbon dioxide adsorbent, granular, 1.4 to 2.4mm, <i>Dangerous Goods for shipment by road, sea or air - consider replacing with soda lime</i>		SC0016					

## Water Scrubbing (Drying) Reagents

OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
R42050.025G R42050.100G	25gm 100gm	<b>EcoDrone Drying Reagent</b> , desiccant, 0.85 to 1.75mm, for NCS/NC/N/S, suitable for sulphur determination, <i>is a non-Dangerous Goods shipping equivalent to magnesium perchlorate (Anhydron), gives slightly higher water backgrounds in MS applications</i>							
R42060.025G R42060.100G	25gm 100gm	<b>EcoDrone Drying Reagent, Self-Indicating</b> , desiccant, 0.85 to 1.75mm, blue to pink indicator, for NC/N, <i>not recommended for sulphur determination, is a non-Dangerous Goods shipping equivalent to self-indicating magnesium perchlorate (Anhydron), gives slightly higher background levels in MS applications</i>							
R42020.025G R42020.100G	25gm 100gm	<b>Magnesium Perchlorate, Premium Grade</b> , granular, 1 to 4mm, for NCS/NC/N/S, suitable for sulphur determination, <i>Dangerous Goods for shipment by road, sea or air - consider replacing with EcoDrone</i>	338 21900	SC0022	021022	03.96-0352	E10507	501-171	0240-1119
R42000.025G R42000.100G	25gm 100gm	<b>Magnesium Perchlorate, Anhydron</b> , desiccant, flakes, for NCS/NC/N/S, suitable for sulphur determination, <i>Dangerous Goods for shipment by road, sea or air - consider replacing with EcoDrone</i>	338 21900	SC0022	021022	03.96-0352	E10507	501-171	0240-1119
R42010.025G R42010.100G	25gm 100gm	<b>Magnesium Perchlorate, Anhydron, Self-Indicating</b> , desiccant, flakes, for NC/N, <i>not recommended for sulphur determination, Dangerous Goods for shipment by road, sea or air - consider replacing with EcoDrone</i>	338 21900	SC0023	021022	03.96-0352	E10507	501-171	0240-1119
R42100.100G R42100.500G	100gm 500gm	<b>Sicapent, Phosphorus Pentoxide Desiccant, Self-Indicating</b> , granular, <i>Dangerous Goods for shipment by road, sea or air.</i>				03.96-0352			
R43010.100G	100gm	<b>Silica Gel, Self Indicating</b> , granular, 1 to 3mm	338 40035			03.96-0157			
R43020.100G	100gm	<b>Molecular Sieve 3A</b> , 1/16" pellets, regenerated, regenerate at 200 to 315°C	338 01801		021023				
R43025.100G	100gm	<b>Molecular Sieve 4A</b> , 1/16" pellets, regenerated, regenerate at 200 to 315°C							





## Reagents for Elemental Analysers



### Interference Removal Reagents



OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
R81350.002G R81350.010G R81350.050G	2gm 10gm 50gm	<b>Silver Wool</b> , 99.99%, very fine wire, unreeled	338 24900	SC0007	021032	22.13-1365			
R81355.010G	10gm	<b>Silvered Copper Wool</b> , fine wire, unreeled, lower cost alternative for pure silver wool but equally effective							
R81360.001E	1 each	<b>Silver Gauze</b> , 99.99%, plain woven, 12.5 x 150mm							0240-0117
R81365.001E	1 each	<b>Silver Gauze</b> , 99.99%, plain woven, 150 x 150mm							0240-0117
R16100.025G R16100.100G	25gm 100gm	<b>Silver Vanadate Reagent</b> , granular, 0.85 to 1.7mm		SC0194				502-226	0240-1117
R12050.025G R12050.100G	25gm 100gm	<b>Cobaltous/ic Oxide, silvered</b> , granular, 0.85 to 1.7mm, can be used in place of Lead Chromate	338 24500	SC0087	011007		E10160		
R16000.025G R16000.100G	25gm 100gm	<b>Universal Fluorine Reagent</b> , granular, 0.85 to 1.7mm, for CHN analysis of fluorine compounds, <i>used in place of silvered cobaltous/ic oxide this reagent will eliminate double hydrogen peaks, protect the separation column and restore analytical precision</i>							
R16200.025G R16200.100G	25gm 100gm	<b>Lead Chromate</b> , granular, 0.85 to 1.7mm, <i>Dangerous Goods for shipment by road, sea or air - consider replacing with silvered cobaltous/ic oxide</i> <b>Sorry, we no longer manufacture this product for H&amp;S reasons</b>				03.67-9914			



### Sample Additives & Combustion Aids

Sample additives and combustion aids can be added directly to your difficult samples in the capsule to assist combustion or pyrolysis.



OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
R51050.010G	10gm	<b>Cobalt Oxide</b> , sample additive, fine powder							0240-1230
R51060.005G	5gm	<b>Carbon</b> , sample additive, fine powder							
R51070.001G R51070.010G	1gm 10gm	<b>Copper Oxide</b> , sample additive, fine powder							
* R51080.001G R51080.005G	1gm 5gm	<b>Lead Oxide</b> , sample additive, fine powder	338 37540		021021				
R51090.010G	10gm	<b>Magnesium Oxide</b> , sample additive, fine powder							
R51100.001G	1gm	<b>Silver Oxide</b> , sample additive, fine powder							0240-0132
R51120.010G	10gm	<b>Tin</b> , sample additive, fine powder							0240-0815 0240-0118
R51130.010G R51130.025G R51130.090G	10gm 25gm 90gm	<b>Tungstic Oxide</b> , sample additive, fine powder				11.02-0017 11.02-0024			0240-1238
R51135.001G	1gm	<b>Niobium Pentoxide</b> , sample additive, fine powder							
* R51140.001G R51140.005G R51140.010G R51140.050G	1gm 5gm 10gm 50gm	<b>Vanadium Pentoxide</b> , sample additive, fine powder	338 37510	SC0027	021027		E10184		0240-1343
R91000.010G	10gm	<b>Chromosorb W</b> , liquid sample absorbent, 45 to 60 mesh <b>Sorry, this product is no longer available</b>	338 37530		021028		E10504		
R51150.025G	25gm	<b>Silver Oxide &amp; Silver Tungstate on Chromosorb P</b> , 30 to 50 mesh							0240-0113



\* Please note that 1gm pack quantities are NOT subject to Dangerous Goods shipment regulations or charges.



## Certified Analytical Reference Standards

Our Organic Analytical Reference Standards are selected for long term stability and are not subject to ambient influences. They are intended for daily routine use as certified working standards which are referenced back to traceable internationally recognised standards.

Although these standards do not require preliminary drying, it is good practice to store them between 20°C to 25°C, tightly sealed away from light and moisture unless otherwise stated.

Our standards are manufactured and purified to allow certification values close to theoretical. After a comprehensive standardisation procedure in our laboratories they are released with a certificate of analysis. The uncertainty of the certified value is expressed as expanded uncertainty, U, at 95% confidence and is calculated in accordance with ISO/IEC17025 according to GUM (Guidelines to Uncertainty in Measurement). Confidence limits include those due to sampling variation, weighing, calibration and measurement errors.

If you need a material (chemical or 'natural') which is not listed please contact us. We can certify these for your particular application for use as QC or calibration references.



CatNo	Pack	Description	%C	%H	%N	%O	%S	%Cl	%Br	%I	%F	%P
R62005.001G	1gm	Anthracene OAS	94.34	5.66								
R63005.001G R63005.002G	1gm 2gm	Benzoic Acid OAS	68.85	4.95		26.20						
R64005.001G	1gm	Dibenzylidisedisulphide OAS	68.25	5.73			26.02					
* R65005.001G	1gm	Imidazole OAS	52.93	5.92	41.15							
R66005.001G R66005.002G R66005.005G	1gm 2gm 5gm	Acetanilide OAS	71.09	6.71	10.36	11.84						
R66010.001G	1gm	Alanine OAS	40.44	7.92	15.92	35.92						
R66011.001G	1gm	Ethylenediaminetetra-acetic acid (EDTA) OAS	41.09	5.52	9.59	43.79						
R66012.050G	50gm	Ethylenediaminetetra-acetic acid (EDTA) Nitrogen Standard OAS	-	-	9.59	-						
R66015.001G	1gm	Cyclohexanone-2,4-dinitrophenylhydrazone OAS	51.79	5.07	20.14	23.00						
R66017.001G	1gm	Urea OAS	20.00	6.71	46.64	26.64						
R66018.025G	25gm	Urea Nitrogen Standard OAS	-	-	46.64	-						
R66020.001G	1gm	Isatin OAS	65.30	3.43	9.52	21.75						
R66025.001G	1gm	Aspartic Acid OAS	36.09	5.30	10.52	48.08						
* R66030.001G	1gm	Caffeine OAS	49.48	5.19	28.85	16.48						
R66035.001G	1gm	Phenacetin OAS	67.01	7.31	7.82	17.86						
R66040.001G	1gm	8-Hydroxyquinoline OAS	74.47	4.86	9.65	11.02						
* R66045.001G R66045.010G	1gm 10gm	Atropine OAS	70.56	8.01	4.84	16.59						
* R67010.001G	1gm	3-Chlorobenzoic Acid OAS	53.70	3.22		20.44		22.64				
R67020.001G	1gm	Triphenylphosphine OAS	82.42	5.76								11.81
R67025.001G	1gm	4-Fluorobenzoic Acid OAS	60.01	3.59		22.84					13.56	
* R67205.001G	1gm	Benzylthiuronium Chloride OAS	47.40	5.47	13.82		15.82	17.49				
R68005.001G R68005.002G	1gm 2gm	2,5-Bis(5-tert-butyl-2-benzo-oxazol-2-yl)thiophene OAS	72.52	6.09	6.51	7.43	7.44					
R68010.001G	1gm	L-Cystine OAS	29.99	5.03	11.66	26.63	26.69					
R68015.001G R68015.010G	1gm 10gm	Methionine OAS	40.25	7.43	9.39	21.44	21.49					
R68020.001G R68020.002G	1gm 2gm	Sulphanilamide OAS	41.85	4.68	16.26	18.58	18.62					
R68025.001G	1gm	Sulphamethazine OAS	51.78	5.07	20.13	11.50	11.52					
R69005.001G	1gm	Enriched Phenanthrene OAS	93.1	5.7	0.4		0.8					
R69006.001G	1gm	Phenanthrene OAS	93.9	5.7			0.4					
* R69010.001G	1gm	Sulphamic Acid OAS		3.11	14.43	49.44	33.02					

\* Please note that 1gm pack quantities are NOT subject to Dangerous Goods shipment regulations or charges.



## Reaction Tubes for Elemental Analysers



### Combustion, Reduction and Pyrolysis Reaction Tubes

OEALaboratories reaction tubes are manufactured in our own glassblowing facility.

Our reaction tubes are made from tolerance selected transparent silica (quartz). Most reaction tubes are offered in **standard wall** (1.4 to 1.5mm) or as a **heavy wall** option (2.0 to 2.1mm) for enhanced performance under severe combustion conditions.

An optional swarf crucible tube liner can be used to increase the working life of the tube and reagents. Crucible tube liners for 18mm reaction tubes are available in lengths from 195mm to 240mm and for heavy and standard wall reaction tube options. Please see [Tube Liners, Ash Crucibles and Oxygen Lances](#) section.

If a tube or other glassware is not listed please call us to discuss your requirements.



#### Thermo Flash EA1112 & EA2000 Reaction Tubes

Ref	Heavy Wall Tube	Standard Wall Tube	Flash EA1112 & EA2000 Reaction Tubes	Thermo PartNo	Pack Size
<b>A</b>	G11150.001E	G11151.001E	Reaction Tube, 18/18T/450, transparent silica, rounded taper end	468 20070	1 each
<b>B</b>	G11120.001E	G11121.001E	Reaction Tube, 18/18T/450, transparent silica, ground taper end for full bore	-	1 each
<b>C</b>	-	G11400.001E	Reaction Tube, 25/25T/450, transparent silica, rounded taper end	468 20085	1 each

#### Thermo (CE Instruments / Fisons) EA1108, EA1110, NA1500 Series 2, NA2100, & NA2500 Reaction Tubes

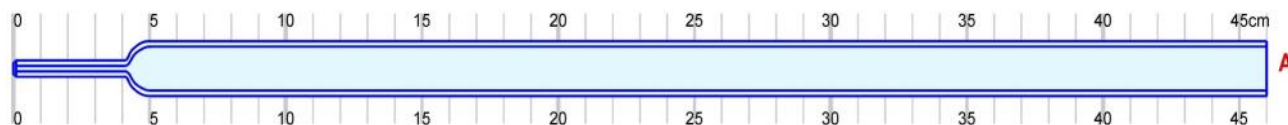
Ref	Heavy Wall Tube	Standard Wall Tube	EA1108, EA1110, NA1500 Series 2, NA2100 & NA2500 Reaction Tubes	Thermo PartNo	Pack Size
<b>A</b>	G11100.001E	G11101.001E	Reaction Tube, 18/18/450, transparent silica	468 20060 468 20001 468 20000	1 each
<b>B</b>	G11102.001E	G11103.001E	Reaction Tube, 18/18/450, transparent silica, with groove		1 each
<b>C</b>	G11200.001E	G11201.001E	Reaction Tube, 18/11.2id/447, transparent silica, Q&E		1 each
<b>D</b>	G11115.001E	G11116.001E	Pyrolysis Tube, 18/6/450, transparent silica		1 each
<b>E</b>	G13010.001E	G13011.001E	Reaction Tube, 18/6/450, transparent silica, early EA1108	468 20020	1 each

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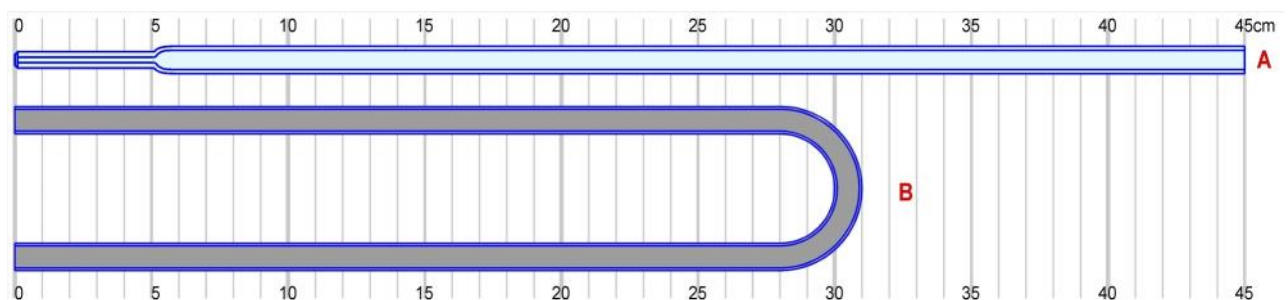
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**Thermo (Carlo Erba) NA1500 Series 1 Reaction Tubes**



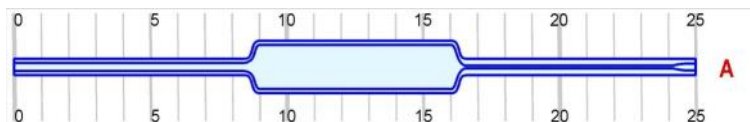
Ref	Heavy Wall Tube	Standard Wall Tube	NA1500 Series 1 Reaction Tubes	Thermo PartNo	Pack Size
A	G11105.001E	G11106.001E	Reaction Tube, 19.5/6/460, transparent silica	468 01600	1 each

**Thermo (Carlo Erba) EA1106 Reaction Tubes**



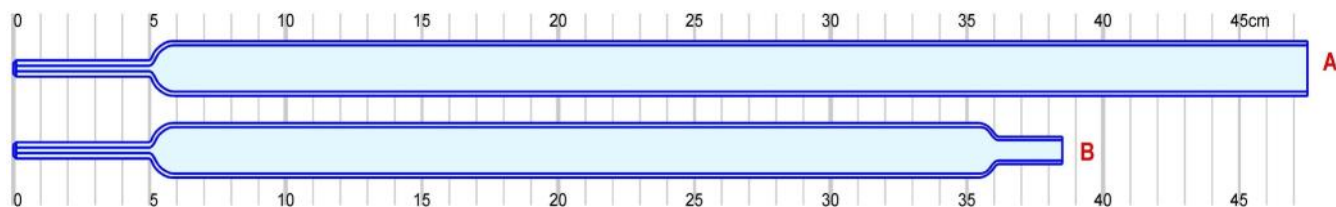
Ref	Heavy Wall Tube	Standard Wall Tube	EA1106 Reaction Tubes	Thermo PartNo	Pack Size
A	-	G11301.001E	Reaction Tube, 10/6/450, transparent silica	468 00900	1 each
B	-	E21801.001E	Reduction Tube, 10/10/310, stainless steel	391 03800	1 each

**Thermo H-Device, ChromeHDAAdvantage and PyrOH Chromium Reaction Tube**



Ref	Heavy Wall Tube	Standard Wall Tube	Thermo H-Device, ChromeHDAAdvantage & PyrOH Tube	Thermo PartNo	Pack Size
A	-	G11500.001E	Reaction Tube, 6/19/6/250, transparent silica,	104 6450	1 each

**Sercon (Europa) ANCA SL, ANCA GSL, Roboprep, Integra & Sercon EA Reaction Tubes**



Ref	Heavy Wall Tube	Standard Wall Tube	ANCA SL, ANCA GSL, Roboprep, Integra & Sercon EA Reaction Tubes	Sercon PartNo	Pack Size
A	G12020.001E	G12021.001E	Reaction Tube, 19.5/6/475, transparent silica	SC0012 SC0650	1 each
B	G12011.001E	G12010.001E	Reduction Tube, 10/19.5/6/385, transparent silica	SC0014	1 each

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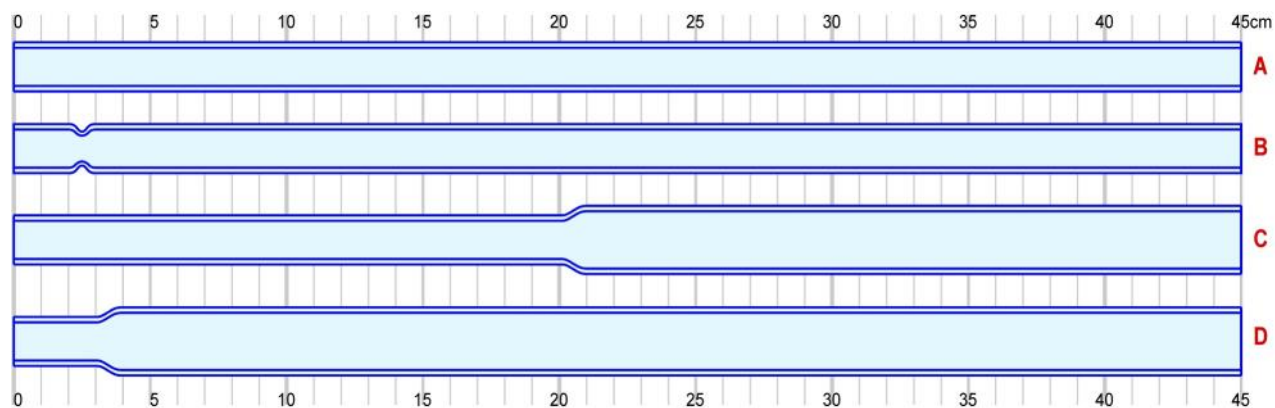


## Reaction Tubes for Elemental Analysers



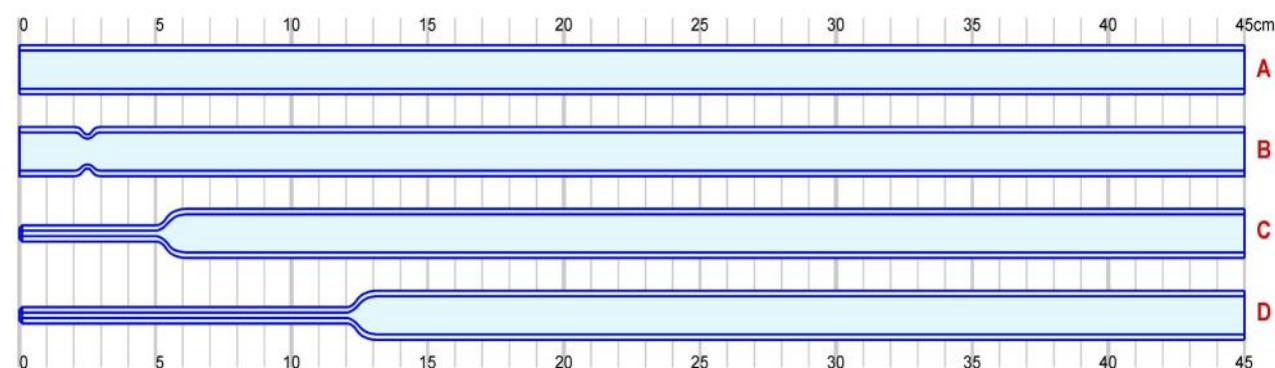
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#### Costech ECS4010 Reaction Tubes



Ref	Heavy Wall Tube	Standard Wall Tube	ECS4010 Reaction Tubes	Costech PartNo	Pack Size
A	G11100.001E	G11101.001E	Reaction Tube, 18/18/450, transparent silica	061104	1 each
B	G11102.001E	G11103.001E	Reaction Tube, 18/18/450, transparent silica, with groove	-	1 each
C	-	G18101.001E	Reaction Tube, 25/18/450, transparent silica, 25mm combustion zone, 18mm reagent zone, 18mm lower fitting	061123	1 each
D	-	G18121.001E	Reaction Tube, 25/18/450, transparent silica, 25mm combustion and reagent zone, 18mm lower fitting	-	1 each

#### Eurovector EA3000 Reaction Tubes



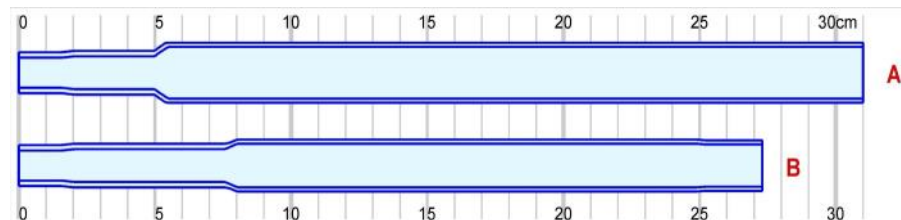
Ref	Heavy Wall Tube	Standard Wall Tube	EA3000 Reaction Tubes	EuroV PartNo	Pack Size
A	G11100.001E	G11101.001E	Reaction Tube, 18/18/450, transparent silica	E12510	1 each
B	G11102.001E	G11103.001E	Reaction Tube, 18/18/450, transparent silica, with groove	-	1 each
C	G13010.001E	G13011.001E	Reaction Tube, 18/6/450, transparent silica	E12509	1 each
D	G11115.001E	G11116.001E	Pyrolysis Tube, 18/6/450, transparent silica	E12512-IG	1 each

Continued . . .



**Continued . . . Combustion, Reduction and Pyrolysis Tubes**

**Leco 900 & 932 Reaction Tubes**



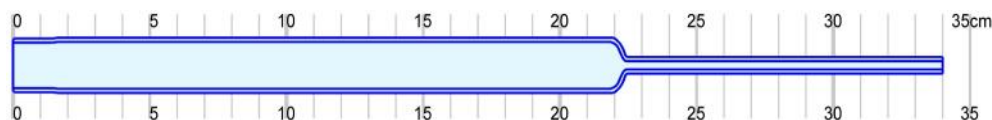
Ref	Heavy Wall Tube	Standard Wall Tube	900 & 932 Reaction Tubes	Leco PartNo	Pack Size
<b>A</b>	-	G17100.001E	Reaction Tube, 11.2id/22/310, transparent silica	605-875	1 each
<b>B</b>	-	G17150.001E	Catalyst Tube, 11.2id/15.9id/273, transparent silica	776-297	1 each

**Elementar Vario EL & Vario Cube Reaction Tubes**



Ref	Heavy Wall Tube	Standard Wall Tube	Vario EL & Vario Cube Reaction Tubes	Elementar PartNo	Pack Size
<b>A</b>	-	G16100.001E	Reaction Tube, S13/24id/370, transparent silica, Vario EL	11.00-1150/4	1 each
<b>B</b>	-	G16550.001E	Combustion Tube, S13/24id/425, transparent silica, PyroCube	23.00-1150	1 each
<b>C</b>	-	G16560.001E	Reduction Tube, S13/24id/320, transparent silica, PyroCube	23.00-1149	1 each

**Shimadzu TOC5000 & TOC5050 Reaction Tubes**



Ref	Standard Wall Tube	TOC5000 & TOC5050 Reaction Tubes	Shimadzu PartNo	Pack Size
<b>A</b>	G14100.001E	Reaction Tube, 19.5/6/340, transparent silica	63141524	1 each

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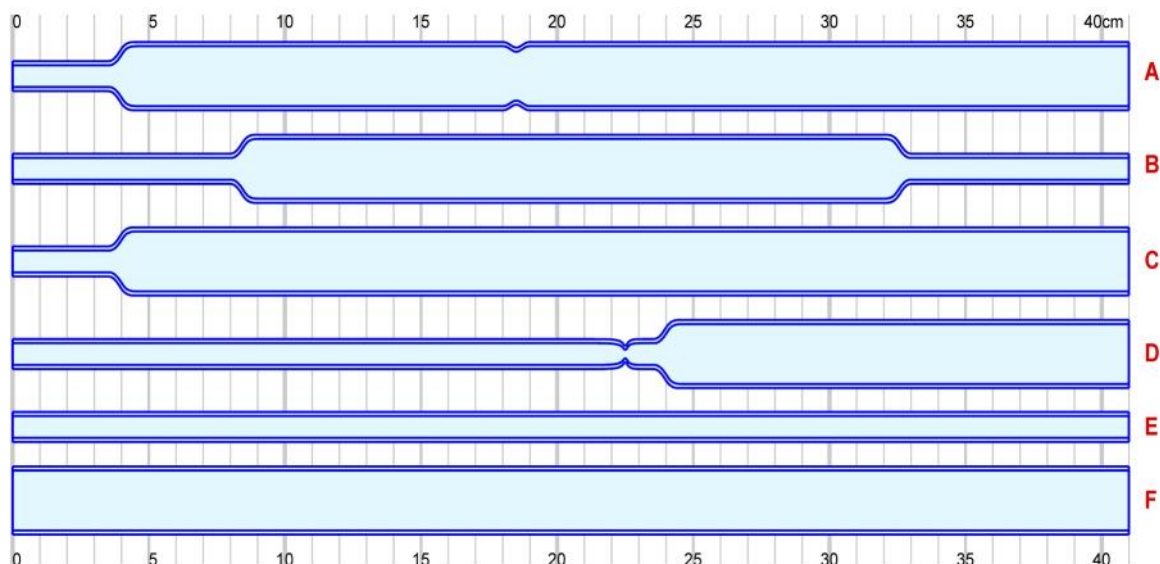


## Reaction Tubes for Elemental Analysers



### Continued . . . Combustion, Reduction and Pyrolysis Tubes

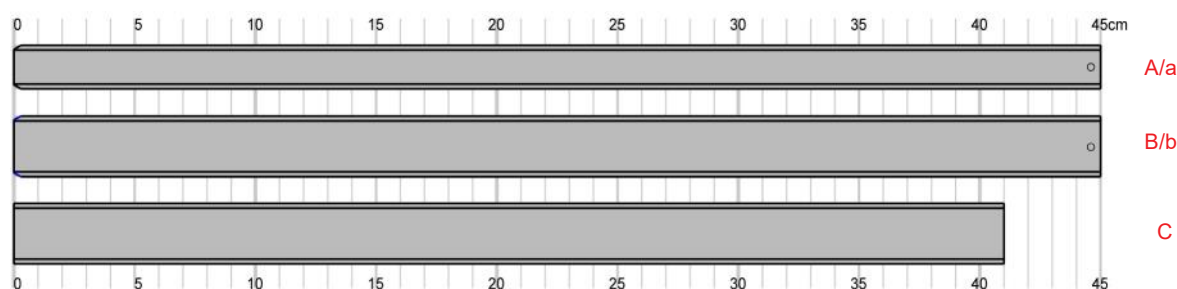
#### **Perkin Elmer 2400 & 2410 Reaction Tubes**



Ref	CatNo	PE2400 & PE2410 Reaction Tubes	PE PartNo	Pack Size
<b>A</b>	G15011.001E	Combustion Tube, CHN, 25/11/410, transparent silica	N241-1264	1 each
<b>B</b>	G15021.001E	Reduction Tube, 11/25/11/410, transparent silica	N241-1291	1 each
<b>C</b>	G15016.001E	Combustion Tube, CHNS, 25/11/410, transparent silica	N241-1514	1 each
<b>D</b>	G15026.001E	Pyrolysis Tube, 25/11/410, transparent silica	N241-1235	1 each
<b>E</b>	G15031.001E	ByPass Tube, 11/11/410, transparent silica	N241-1300	1 each
<b>F</b>	G15035.001E	Nitrogen Reaction Tube, 25/25/410, transparent silica	N241-1487	1 each

### Stainless Steel and Inconel (HPAR) Reaction Tubes

#### **Stainless Steel and Inconel (High Performance Alloy) Reaction Tubes**

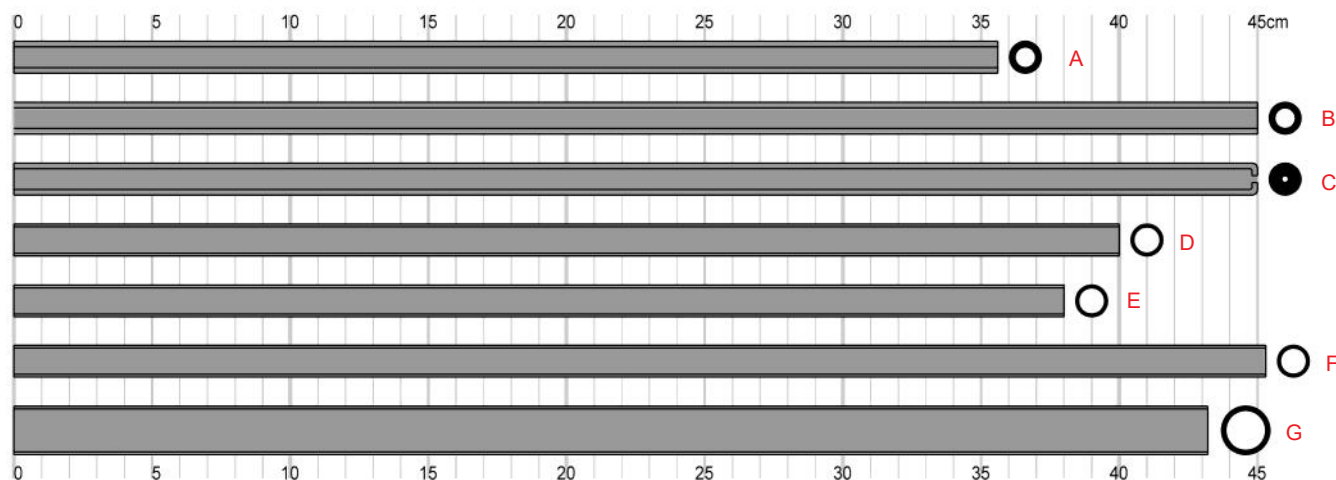


Ref	CatNo	Pack Size	Description	OEM PartNo	Outside Diameter	Inside Diameter	Length
<b>A</b>	E25500.001E	1 each	Reaction Tube, stainless steel, chamfered lower end, 3.5mm holes on upper end for removal	468 20050	18mm	15mm	450mm
<b>a</b>	E25510.001E	1 each	Reaction Tube, inconel high performance alloy, chamfered lower end, 3.5mm holes on upper end for removal		18mm	15mm	450mm
<b>B</b>	E25550.001E	1 each	Reaction Tube, stainless steel, chamfered lower end, 3.5mm holes on upper end for removal		25mm	22mm	450mm
<b>b</b>	E25560.001E	1 each	Reaction Tube, inconel high performance alloy, chamfered lower end, 3.5mm holes on upper end for removal	468 20075	25mm	22mm	450mm
<b>C</b>	E25600.001E	1 each	Reaction Tube, stainless steel, for PE2400	N242-1070	25mm	22mm	410mm



## Glassy Carbon Tubes and Chips

### Glassy Carbon Tubes



Ref	CatNo	Pack Size	Description	OEM PartNo	Outside Diameter	Inside Diameter	Length
A	G51020.001E	1 each	Glassy Carbon Tube, open both ends	112 1310	12mm	7mm	356mm
B	G51025.001E	1 each	Glassy Carbon Tube, open both ends		12mm	7mm	450mm
C	G51030.001E	1 each	Glassy Carbon Tube, closed one end with 2mm hole		12mm	7mm	450mm
D	G51040.001E	1 each	Glassy Carbon Tube, open both ends		12mm	9mm	400mm
E	G51038.001E	1 each	Glassy Carbon Tube, open both ends		12mm	9mm	380mm
F	G51050.001E	1 each	Glassy Carbon Tube, open both ends, for use with modified lower fitting		12mm	9mm	453mm
G	G51060.001E	1 each	Glassy Carbon Tube, open both ends, PyroCube	23.00-1020	18mm	14mm	432mm



Other sizes available. Please enquire.

### Glassy Carbon Chips

CatNo	Pack Size	Description	OEM PartNo	Mesh Size
R25000.025G R25000.050G R25000.100G	25gm 50gm 100gm	Glassy Carbon Chips	338 23923 111 7400	2 to 3mm
R25010.025G R25010.050G R25010.100G	25gm 50gm 100gm	Glassy Carbon Chips	338 23934	3 to 4mm
R25020.025G R25020.050G R25020.100G	25gm 50gm 100gm	Glassy Carbon Chips	11.64-0050	2 to 4mm



### Graphite Felt Pads

CatNo	Pack Size	Description	OEM PartNo
R81710.012P	12 discs	Graphite Felt Discs, 15mm diameter, 10mm thick	23.00-0098
R81720.012P	12 discs	Graphite Felt Discs, 26mm diameter, 10mm thick	11.40-0014/4

Graphite Felt available in other sizes. Please enquire.

### Graphite Rods

CatNo	Pack Size	Description	OEM PartNo
G52205.001E	1 each	Graphite Cleaning Rod, round, 5mm OD x 305mm long	112 1341

Graphite Rods available in other sizes. Please enquire.





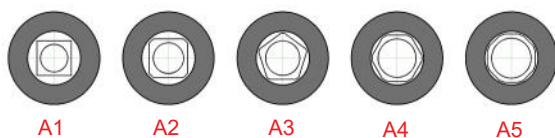
## Graphite Crucibles & Insert Tubes

### Graphite Crucibles and Insert Tubes

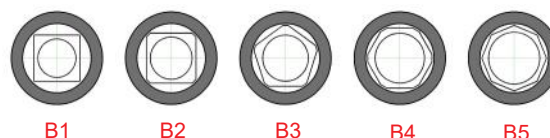
#### Graphite Crucibles for O and H Isotope Analysis



Top view of graphite crucibles in 12mm OD x 7mm ID glassy carbon tube.



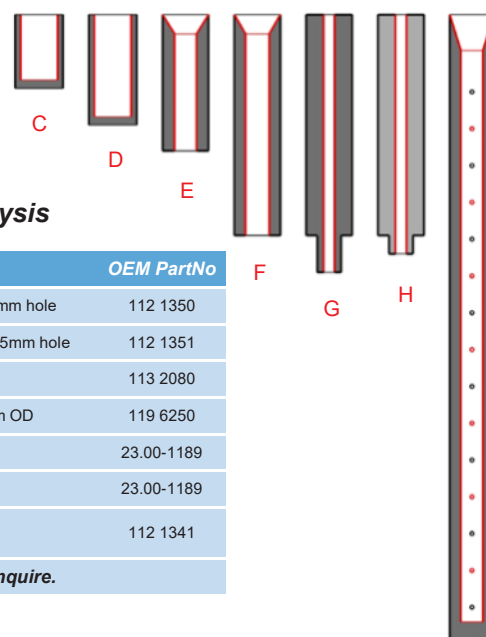
Top view of graphite crucibles in 12mm OD x 9mm ID glassy carbon tube.



Ref	CatNo	Pack Size	Description	Fits Tube	Length	Hole Diameter	Volume	OEM PartNo
A1	G52100.001E	1 each	Graphite Crucible, 4.5mm square	7mm bore	30	3.6mm	0.28cm <sup>3</sup>	111 7332
	G52101.001E	1 each	Graphite Crucible, 4.5mm square	7mm bore	40	3.6mm	0.39cm <sup>3</sup>	-
A2	G52102.001E	1 each	Graphite Crucible, 5.0mm square, slightly chamfered	7mm bore	30	4.0mm	0.35cm <sup>3</sup>	-
	G52103.001E	1 each	Graphite Crucible, 5.0mm square, slightly chamfered	7mm bore	40	4.0mm	0.48cm <sup>3</sup>	-
A3	G52104.001E	1 each	Graphite Crucible, pentagonal	7mm bore	30	4.5mm	0.45cm <sup>3</sup>	-
	G52105.001E	1 each	Graphite Crucible, pentagonal	7mm bore	40	4.5mm	0.60cm <sup>3</sup>	-
A4	G52106.001E	1 each	Graphite Crucible, hexagonal	7mm bore	30	5.0mm	0.55cm <sup>3</sup>	-
	G52107.001E	1 each	Graphite Crucible, hexagonal	7mm bore	40	5.0mm	0.75cm <sup>3</sup>	-
A5	G52108.001E	1 each	Graphite Crucible, octagonal	7mm bore	30	5.2mm	0.59cm <sup>3</sup>	-
	G52109.001E	1 each	Graphite Crucible, octagonal	7mm bore	40	5.2mm	0.81cm <sup>3</sup>	-
B1	G52150.001E	1 each	Graphite Crucible, 6.0mm square	9mm bore	30	5.0mm	0.55cm <sup>3</sup>	-
	G52151.001E	1 each	Graphite Crucible, 6.0mm square	9mm bore	40	5.0mm	0.75cm <sup>3</sup>	-
B2	G52152.001E	1 each	Graphite Crucible, 6.5mm square	9mm bore	30	5.5mm	0.66cm <sup>3</sup>	-
	G52153.001E	1 each	Graphite Crucible, 6.5mm square	9mm bore	40	5.5mm	0.90cm <sup>3</sup>	-
B3	G52154.001E	1 each	Graphite Crucible, pentagonal	9mm bore	30	6.0mm	0.79cm <sup>3</sup>	-
	G52155.001E	1 each	Graphite Crucible, pentagonal	9mm bore	40	6.0mm	1.07cm <sup>3</sup>	-
B4	G52156.001E	1 each	Graphite Crucible, hexagonal	9mm bore	30	6.5mm	0.93cm <sup>3</sup>	-
	G52157.001E	1 each	Graphite Crucible, hexagonal	9mm bore	40	6.5mm	1.26cm <sup>3</sup>	-
B5	G52158.001E	1 each	Graphite Crucible, octagonal	9mm bore	30	6.75mm	1.00cm <sup>3</sup>	-
	G52159.001E	1 each	Graphite Crucible, octagonal	9mm bore	40	6.75mm	1.36cm <sup>3</sup>	-

#### Graphite Crucibles for Oxygen Elemental Analysis

Ref	CatNo	Pack Size	Description
C	G52140.001E	1 each	Graphite Crucible, for 18mm heavy wall silica tubes, 20mm long
	G52141.001E	1 each	Graphite Crucible, for 18mm standard wall silica tubes, 20mm long
D	G52142.001E	1 each	Graphite Crucible, for 18mm heavy wall silica tubes, 30mm long
	G52143.001E	1 each	Graphite Crucible, for 18mm standard wall silica tubes, 30mm long



#### Graphite and Stainless Steel Insert Tubes for O and H Isotope Analysis

Ref	CatNo	Pack Size	Description	OEM PartNo
E	G52112.001E	1 each	Graphite Insert Tube, solid samples, 60° funnelled inlet, 37mmLx12.5mmOD, 6mm hole	112 1350
F	G52110.001E	1 each	Graphite Insert Tube, solid samples, 60° funnelled inlet, 60mmLx12.5mmOD, 6.5mm hole	112 1351
G	G52120.001E	1 each	Graphite Insert Tube, for liquid samples, reduced end, 70mm L x 12.5mm OD	113 2080
H	G52130.001E	1 each	Stainless Steel Insert Tube, for liquid samples, reduced end, 65mm L x 12.5mm OD	119 6250
J	G52125.001E	1 each	Graphite Ash Finger PyroCube HT, 170mm x 12mm OD	23.00-1189
j	G52126.001E	1 each	Glassy Carbon Ash Finger PyroCube HT, 200mm x 12mm OD	23.00-1189
not shown	G52205.001E	1 each	Graphite Cleaning Rod, round, 5mm OD x 305mm long	112 1341

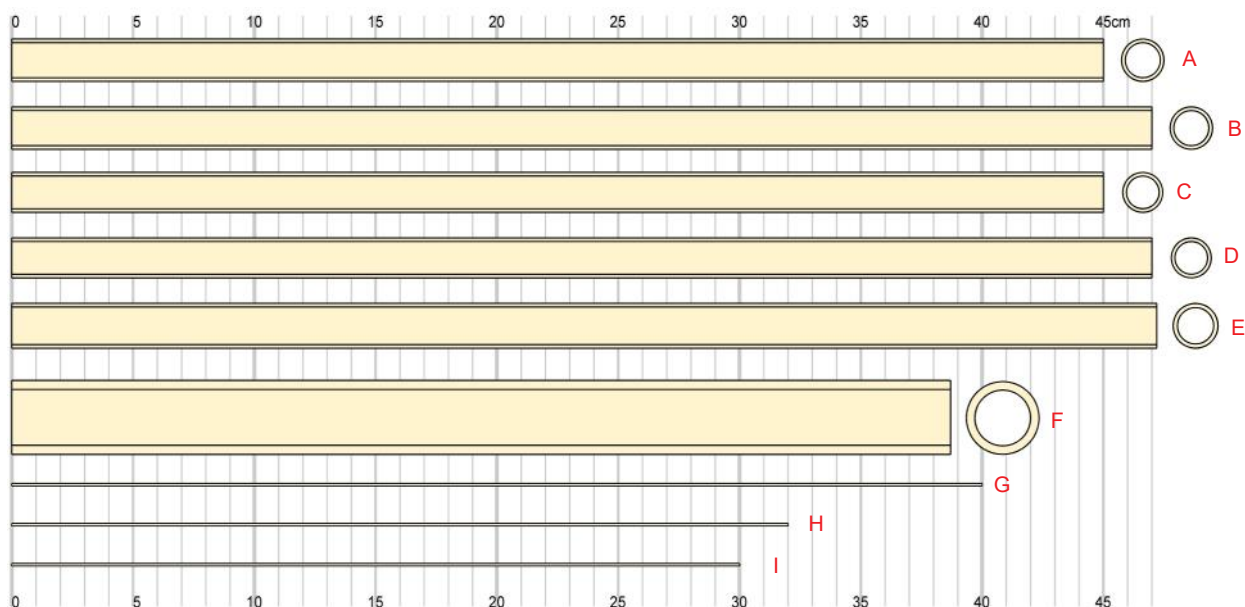
We can manufacture other graphite products to your specification. Please enquire.

J/j



## Ceramic Tubes and Materials

### Ceramic Tubes - High Purity Aluminium Oxide (Alumina)

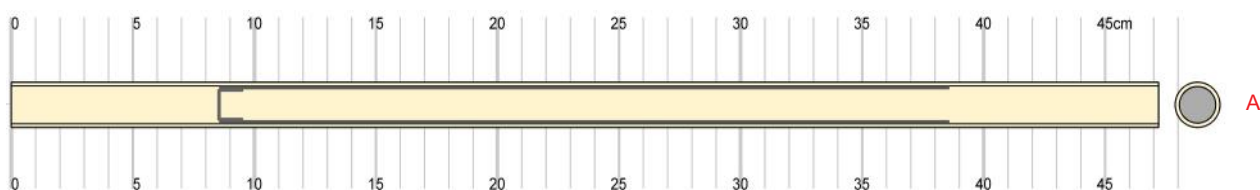


Ref	CatNo	Pack Size	Description	OEM PartNo	Outside Diameter	Inside Diameter	Length
A	G61100.001E	1 each	Ceramic Tube, high purity alumina, open both ends	468 02010	18mm	14mm	450mm
B	G61110.001E	1 each	Ceramic Tube, high purity alumina, open both ends	-	18mm	14mm	470mm
C	G61120.001E	1 each	Ceramic Tube, high purity alumina, open both ends	115 6890 E12507	17mm	13mm	450mm
D	G61130.001E	1 each	Ceramic Tube, high purity alumina, open both ends	112 1320	17mm	13mm	470mm
E	G61140.001E	1 each	Ceramic Tube, high purity alumina, open both ends	HE468110	19mm	15mm	472mm
F	G61145.001E	1 each	Ceramic Tube, high purity alumina, open both ends	23.00-1021	30mm	23mm	387mm
G	G62030.001E G62030.005P	1 each 5 pack	Ceramic Tube, high purity alumina, open both ends, Europa/Sercon Orchid	SC0091	1.6mm	0.8mm	400mm
H	G62010.001E G62010.005P	1 each 5 pack	Ceramic Tube, high purity alumina, open both ends, Thermo GC-C	104 0920	1.5mm	0.5mm	320mm
I	G62020.001E G62020.005P	1 each 5 pack	Ceramic Tube, high purity alumina, open both ends, Thermo GC-C		1.5mm	0.5mm	300mm



All ceramic tubes supplied by OEA Labs are high performance pure aluminium oxide (alumina). We can supply lower grades of alumina. Please enquire.

### Molybdenum Lined Ceramic Tubes for Oxygen & Hydrogen Stable Isotope Analysis



Ref	CatNo	Pack Size	Description	OEM PartNo	Outside Diameter	Inside Diameter	Length
A	G61150.001E	1 each	Molybdenum Lined Ceramic Tube, with Mo plug, high purity alumina	SC2332	19mm	15mm	472mm
Please enquire for other sizes.							



## Tube Liners, Ash Crucibles & Oxygen Lances



### Tube Liners, Ash Crucibles, Support Tubes & Oxygen Lances

OEA Labs manufacture a wide range of tube liners, ash crucibles and oxygen lances in a variety of materials and designs for almost any application and instrument. If you require other lengths or designs then please contact us. We can make or adapt a liner to your specification.

The use of tube liners is an economical way to optimise the working life of a combustion tube. With a little care the capsule swarf can be removed from the liner and the liner used a number of times.



#### Combustion Tube Liners with Bevelled Lower End for Thermo, Costech & Eurovector 18mm tubes

This range of silica tube liners for Thermo, Costech and Eurovector instruments has a bevelled lower end to retain the silica wool plug. To minimise dead space liners are available in 13 and 14mm diameters to suit heavy and standard wall 18mm reaction tubes. Holes are provided on the upper part of the liners for ease of removal. They are slit on both sides at 20mm spacing and are completely fire polished. The recommended length is 5mm less than the free space above the reagents.



Available in lengths from 195mm to 240mm

Use with Heavy Wall Tubes	Use with Standard Wall Tubes	Description	OEM PartNo	Length	Pack Size
G31195.001E	G31196.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	-	195mm	1 each
G31200.001E	G31201.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	-	200mm	1 each
G31205.001E	G31206.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	252 04500	205mm	1 each
G31210.001E	G31211.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	-	210mm	1 each
G31215.001E	G31216.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	-	215mm	1 each
G31220.001E	G31221.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	E12531	220mm	1 each
G31225.001E	G31226.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	-	225mm	1 each
G31230.001E	G31231.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	252 04510	230mm	1 each
G31235.001E	G31236.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	-	235mm	1 each
G31240.001E	G31241.001E	Tube Liner, bevelled lower end, slitted 20mm, open ends, transparent silica	-	240mm	1 each

#### Combustion Tube Liners with Straight Lower End for Thermo, Costech & Eurovector 18mm tubes

This range of silica tube liners for Thermo, Costech and Eurovector instruments has a straight lower end to assist cleaning for re-use. To minimise dead space liners are available in 13 and 14mm diameters to suit heavy and standard wall 18mm reaction tubes. Holes are provided on the upper part of the liners for ease of removal. They are slit on both sides at 20mm spacing and are completely fire polished. The recommended length is 5mm less than the free space above the reagents.



Available in lengths from 195mm to 240mm

Use with Heavy Wall Tubes	Use with Standard Wall Tubes	Description	OEM PartNo	Length	Pack Size
G31197.001E	G31198.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	-	195mm	1 each
G31202.001E	G31203.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	-	200mm	1 each
G31207.001E	G31208.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	252 04500	205mm	1 each
G31212.001E	G31213.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	-	210mm	1 each
G31217.001E	G31218.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	-	215mm	1 each
G31222.001E	G31223.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	E12531	220mm	1 each
G31227.001E	G31228.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	-	225mm	1 each
G31232.001E	G31233.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	252 04510	230mm	1 each
G31237.001E	G31238.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	-	235mm	1 each
G31242.001E	G31243.001E	Tube Liner, straight lower end, slitted 20mm, open ends, transparent silica	-	240mm	1 each

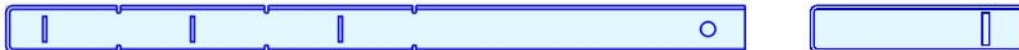
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## Continued . . . Tube Liners, Ash Crucibles, Support Tubes and Oxygen Lances

### Combustion Tube Liners with Closed Lower End for Thermo, Costech & Eurovector 18mm tubes

These silica tube liners are closed on the lower end. The diameter is 13mm so it is suitable for both heavy and standard wall tubes. They are slit on both sides at 20mm spacing and are completely fire polished. Ash crucibles are available for both heavy and standard wall tubes.



Use with Heavy Wall Tubes	Use with Standard Wall Tubes	Description	OEM PartNo	Length	Pack Size
	G31400.001E	Tube Liner, closed lower end, slit 20mm, transparent silica	-	205mm	1 each
G31510.005P	G31520.005P	Ash Crucible, closed lower end, slit, transparent silica	-	60mm	5 pack

### Economy Combustion Tube Liners for Thermo, Costech & Eurovector 18mm tubes

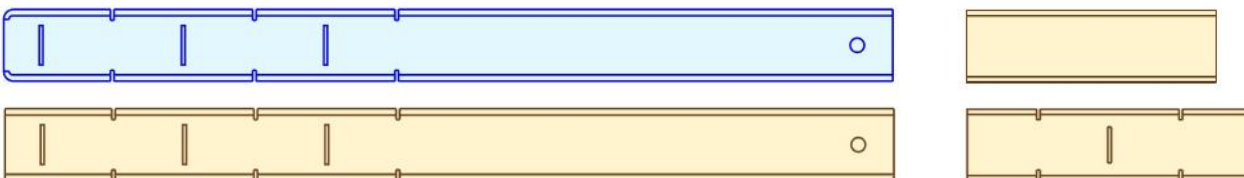
Our economy tube liners are a simple no frills design available in two popular lengths. The diameter is 13 mm so they will fit both heavy and standard wall tubes. They are slit on both sides at 25mm spacing but do not have extraction holes. They are not fire polished.



CatNo	Description	OEM PartNo	Length	Pack
G31350.005P	Tube Liner, economy, open ends, transparent silica, for 18mm diameter tubes	-	195mm	5 pack
G31300.005P	Tube Liner, economy, open ends, transparent silica, for 18mm diameter tubes	061118	220mm	5 pack

### Combustion Tube Liners & Ash Crucibles for Thermo & Costech 25mm tubes

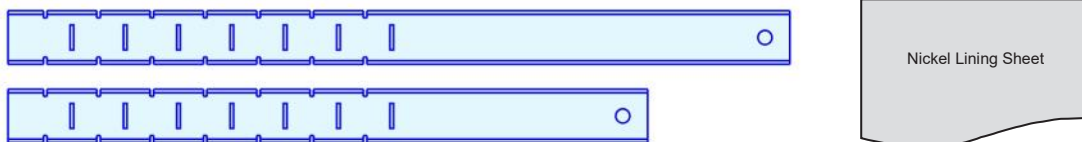
The silica tube liner has a bevelled lower end to retain the silica wool plug. Holes are provided on the upper part of the liners for ease of removal. They are slit on both sides at 20mm spacing. The silica liner is fire polished.



CatNo	Description	OEM PartNo	Length	Pack
G31253.001E	Tube Liner, bevelled lower end, transparent silica, for 25mm diameter tubes	-	250mm	1 each
G37253.001E	Tube Liner, open ends, pure alumina, for 25mm diameter tubes	-	250mm	1 each
G37105.001E	Ash Crucible, open ends, no slits, pure alumina, for 25mm tubes	061150	70mm	1 each
G37100.001E	Ash Crucible, open ends, slits at 15mm, pure alumina, for 25mm tubes	-	80mm	1 each

### Combustion Tube Liners for ANCA, Roboprep, Integra & Thermo NA1500/1 19.5mm tubes

These are the classic design for Europa/Sercon and Thermo NA1500 series 1 systems that use 19.5mm tubes. The liners can be used with both heavy and standard wall tubes. Holes are provided on the upper part of the liners for ease of removal. They are slit on both sides at 10mm spacing and are completely fire polished. Nickel sheet is supplied as an alternative method to line reaction tubes.



CatNo	Description	OEM PartNo	Length	Pack
G32010.001E	Tube Liner, open ends, transparent silica, for 19.5mm diameter tubes	-	220mm	1 each
G32020.001E	Tube Liner, open ends, transparent silica, for 19.5mm diameter tubes	-	180mm	1 each
R90000.001E	Tube Liner, nickel sheet, 130mm x 65mm x 0.15mm			1 sheet
R90005.001E	Tube Liner, nickel sheet, 130mm x 130mm x 0.15mm			1 sheet

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## Tube Liners, Ash Crucibles & Oxygen Lances

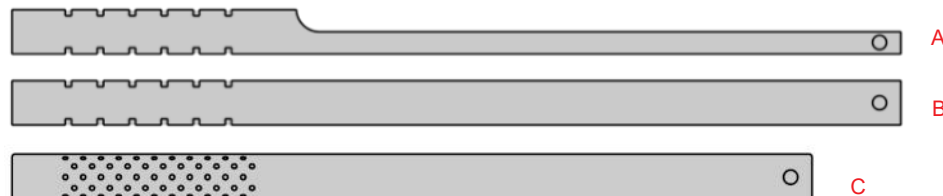


### Continued . . . Tube Liners, Ash Crucibles, Support Tubes and Oxygen Lances

The advantage of metal tube liners is that they can be used many times and are very robust compared to silica glass. Stainless steel or silica liners are suitable for most applications but samples of high halogen or carbohydrate content can be quite damaging over time. Inconel high performance alloy has been found to be resistant to chemical attack at high temperature and its use is recommended for both elemental and isotope analysis.

Some metal liners have retaining tabs as standard to hold the silica wool plug in place. Most have no tabs which makes it easier to remove capsule swarf or glass fibre filter debris by means of a metal drilling rod. We can also supply these liners in different lengths and with or without tabs. Please enquire for any modifications required.

#### Stainless & Inconel High Performance Alloy Tube Liners for 18mm Tubes



Ref	CatNo	Description	Tabs	Length	Pack
A	M10320.001E	Tube Crucible, Stainless Steel, for 18mm diameter tubes, cut away design with extraction holes, equivalent Thermo 252 05010	Yes	250mm	1 each
	M10321.001E	Tube Crucible, Stainless Steel, for 18mm diameter tubes, cut away design with extraction holes	No	250mm	1 each
	M10323.001E	Tube Crucible, Stainless Steel, for 18mm diameter tubes, cut away design with extraction holes	Yes	220mm	1 each
	M10324.001E	Tube Crucible, Stainless Steel, for 18mm diameter tubes, cut away design with extraction holes	No	220mm	1 each
	M10325.001E	Tube Crucible, Inconel Alloy, for 18mm diameter tubes, cut away design with extraction holes	Yes	250mm	1 each
	M10326.001E	Tube Crucible, Inconel Alloy, for 18mm diameter tubes, cut away design with extraction holes	No	250mm	1 each
	M10328.001E	Tube Crucible, Inconel Alloy, for 18mm diameter tubes, cut away design with extraction holes	Yes	220mm	1 each
	M10329.001E	Tube Crucible, Inconel Alloy, for 18mm diameter tubes, cut away design with extraction holes	No	220mm	1 each
B	M10385.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, tubular design with extraction holes	No	250mm	1 each
	M10386.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, tubular design with extraction holes	No	240mm	1 each
	M10387.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, tubular design with extraction holes	No	230mm	1 each
	M10388.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, tubular design with extraction holes	No	220mm	1 each
	M10389.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, tubular design with extraction holes	No	210mm	1 each
	M10390.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, tubular design with extraction holes	No	200mm	1 each
C	M10360.001E	Tube Liner/Crucible, Stainless Steel, for 18mm tubes, design according to Prof Wolfram Meier-Augenstein, 132 holes of 1mm diameter, tubular design with extraction holes	No	225mm	1 each
	M10361.001E	Tube Liner/Crucible, Stainless Steel, for 18mm tubes, design according to Prof Wolfram Meier-Augenstein, 132 holes of 1mm diameter, tubular design with extraction holes	No	215mm	1 each
	M10362.001E	Tube Liner/Crucible, Stainless Steel, for 18mm tubes, design according to Prof Wolfram Meier-Augenstein, 132 holes of 1mm diameter, tubular design with extraction holes	No	205mm	1 each
	M10363.001E	Tube Liner/Crucible, Stainless Steel, for 18mm tubes, design according to Prof Wolfram Meier-Augenstein, 132 holes of 1mm diameter, tubular design with extraction holes	No	195mm	1 each
	M10365.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, design according to Prof Wolfram Meier-Augenstein, 132 holes of 1mm diameter, tubular design with extraction holes	No	225mm	1 each
	M10366.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, design according to Prof Wolfram Meier-Augenstein, 132 holes of 1mm diameter, tubular design with extraction holes	No	215mm	1 each
	M10367.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, design according to Prof Wolfram Meier-Augenstein, 132 holes of 1mm diameter, tubular design with extraction holes	No	205mm	1 each
	M10368.001E	Tube Liner/Crucible, Inconel Alloy, for 18mm tubes, design according to Prof Wolfram Meier-Augenstein, 132 holes of 1mm diameter, tubular design with extraction holes	No	195mm	1 each

#### Stainless & Inconel High Performance Alloy Tube Liners for 19.5mm Tubes



Ref	CatNo	Description	Tabs	Length	Pack
A	M10340.001E	Tube Crucible, Stainless Steel, for 19.5mm diameter tubes (NA1500 Series 1, ANCA, Roboprep), cut away design with extraction holes	Yes	250mm	1 each
	M10341.001E	Tube Crucible, Stainless Steel, for 19.5mm diameter tubes (NA1500 Series 1, ANCA, Roboprep), cut away design with extraction holes	No	250mm	1 each
	M10350.001E	Tube Crucible, Stainless Steel, for 19.5mm diameter tubes (NA1500 Series 1, ANCA, Roboprep), cut away design with extraction holes	Yes	220mm	1 each
	M10351.001E	Tube Crucible, Stainless Steel, for 19.5mm diameter tubes (NA1500 Series 1, ANCA, Roboprep), cut away design with extraction holes	No	220mm	1 each
	M10345.001E	Tube Crucible, Inconel Alloy, for 19.5mm diameter tubes (NA1500 Series 1, ANCA, Roboprep), cut away design with extraction holes	Yes	250mm	1 each
	M10346.001E	Tube Crucible, Inconel Alloy, for 19.5mm diameter tubes (NA1500 Series 1, ANCA, Roboprep), cut away design with extraction holes	No	250mm	1 each
	M10355.001E	Tube Crucible, Inconel Alloy, for 19.5mm diameter tubes (NA1500 Series 1, ANCA, Roboprep), cut away design with extraction holes	Yes	220mm	1 each
	M10356.001E	Tube Crucible, Inconel Alloy, for 19.5mm diameter tubes (NA1500 Series 1, ANCA, Roboprep), cut away design with extraction holes	No	220mm	1 each

Continued . . .



## Continued . . . Tube Liners, Ash Crucibles, Support Tubes and Oxygen Lances

### Stainless & Inconel High Performance Alloy Tube Liners for 25mm Tubes



A

Ref	CatNo	Description	Tabs	Length	Pack
F	M10330.001E	Tube Crucible, Stainless Steel, for 25mm diameter tubes, cut away design with extraction holes	Yes	250mm	1 each
	M10331.001E	Tube Crucible, Stainless Steel, for 25mm diameter tubes, cut away design with extraction holes	No	250mm	1 each
	M10333.001E	Tube Crucible, Stainless Steel, for 25mm diameter tubes, cut away design with extraction holes	Yes	220mm	1 each
	M10334.001E	Tube Crucible, Stainless Steel, for 25mm diameter tubes, cut away design with extraction holes	No	220mm	1 each
	M10335.001E	Tube Crucible, Stainless Steel, for 25mm diameter tubes, cut away design with extraction holes, equivalent Thermo 252 05011	Yes	250mm	1 each
	M10336.001E	Tube Crucible, Stainless Steel, for 25mm diameter tubes, cut away design with extraction holes	No	250mm	1 each
	M10338.001E	Tube Crucible, Stainless Steel, for 25mm diameter tubes, cut away design with extraction holes	Yes	220mm	1 each
	M10339.001E	Tube Crucible, Stainless Steel, for 25mm diameter tubes, cut away design with extraction holes	No	220mm	1 each

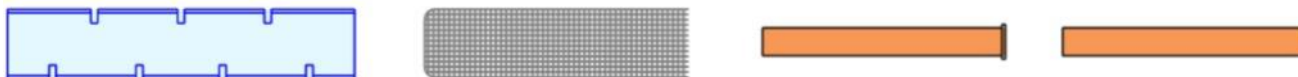


### Leco 900/932 Oxygen Lances and Ash Crucibles



CatNo	Description	OEM PartNo	Length	Pack
G17200.001E	Oxygen Lance, transparent silica	604-541	130mm	1 each
G37010.005P	Ash Crucible, transparent silica	501-045	20mm	5 pack
G37015.001E	Ash Crucible, zirconia	501-045	20mm	5 pack

### Perkin Elmer 2400 Vial Receptacles & Diffusers



CatNo	Description	OEM PartNo	Length	Pack
G35010.001E	Vial Receptacle, open ends, transparent silica	N241-1401	100mm	1 each
M10300.001E	Vial Receptacle, heavy nickel gauze	N241-1335	76mm	1 each
E25100.001E	Reduction Tube Diffuser, copper, with flange	N241-1333	70mm	1 each
E25110.001E	Reduction Tube Diffuser, copper, without flange	N241-1274	70mm	1 each

Continued . . .



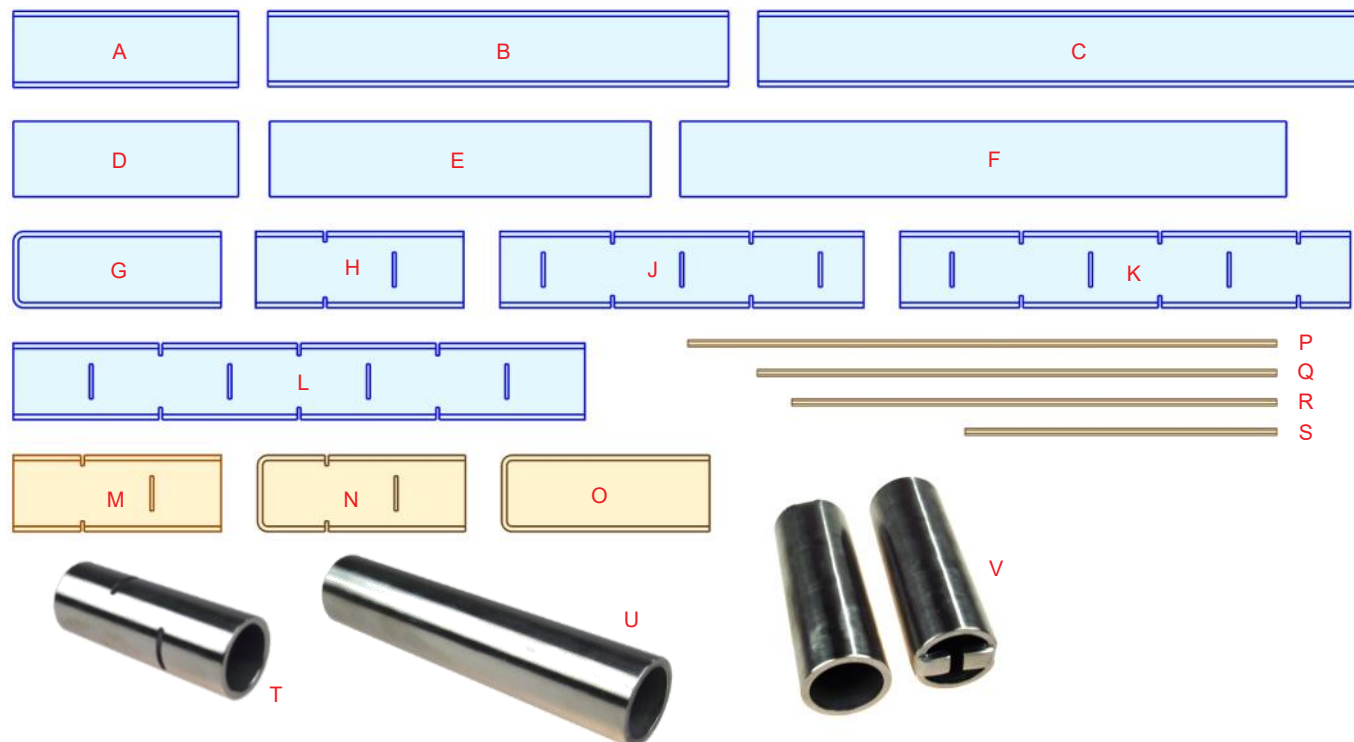
## Tube Liners, Ash Crucibles & Oxygen Lances



### Continued . . . Tube Liners, Ash Crucibles, Support Tubes and Oxygen Lances

#### **Elementar Support Tubes, Support Rods, Ash Fingers and Oxygen Lances**

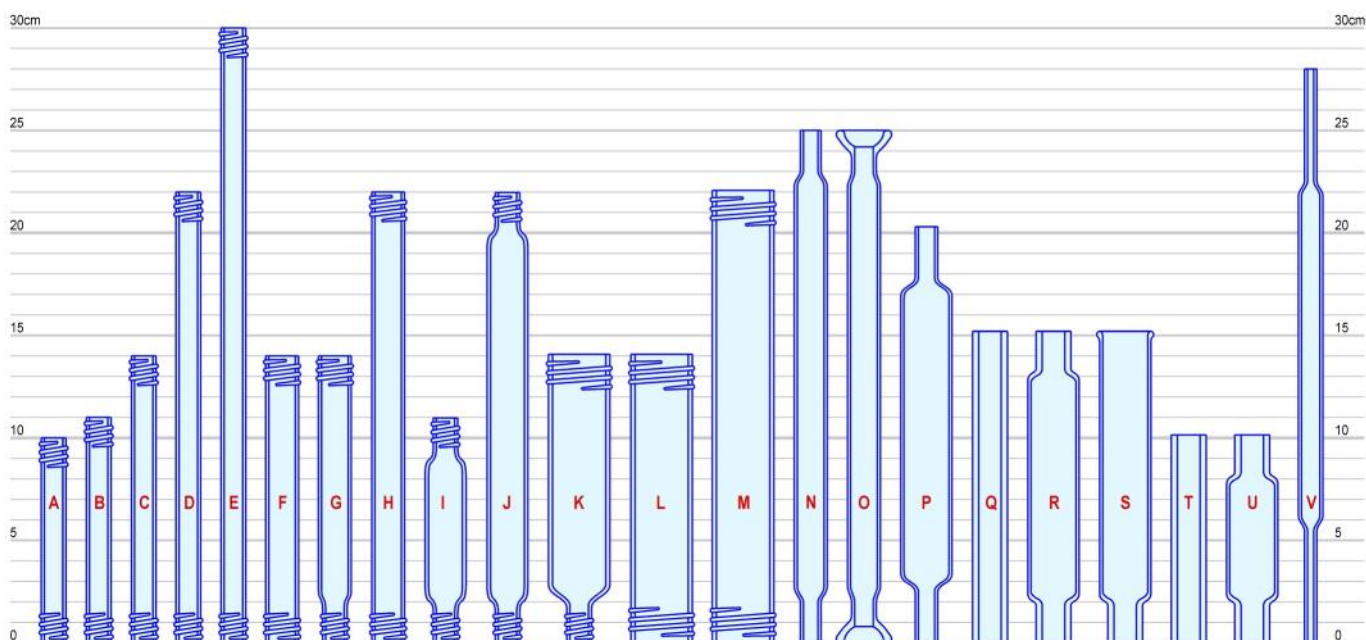
OEA Labs manufactures many products for Elementar elemental analysers. If you need any parts not listed please contact us. We are constantly adding to our product range.



Ref	CatNo	Description	OEM PartNo	Length	Pack
A	G16150.001E	Support Tube, open ends, transparent silica	11.00-1172/4	65mm	1 each
B	G16160.001E	Support Tube, open ends, transparent silica	11.00-1171/4	133mm	1 each
C	G16165.001E	Support Tube, open ends, transparent silica tube	23.00-1148	175mm	1 each
D	G16167.001E	Support Rod, transparent silica rod	11.00-1364/4	65mm	1 each
E	G16168.001E	Support Rod, transparent silica rod	15.40-1002	110mm	1 each
F	G16166.001E	Support Rod, transparent silica rod	23.00-1148	175mm	1 each
G	G36012.001E	Ash Crucible, closed one end, transparent silica	11.02-1036/4	60mm	1 each
H	G36010.001E	Ash Finger, open ends, transparent silica, with slits	11.00-1170/4	60mm	1 each
J	G36020.001E	Ash Finger, open ends, transparent silica, with slits	11.00-1317/4	105mm	1 each
K	G36025.001E	Ash Finger, open ends, transparent silica, with slits	-	130mm	1 each
L	G36030.001E	Ash Finger, open ends, transparent silica, with slits	-	165mm	1 each
M	G36015.001E	Ash Finger, open ends, pure alumina ceramic, with slits	15.00-1319	60mm	1 each
N	G36016.001E	Ash Finger, closed one end, slits 20mm, pure alumina ceramic	15.00-1309	60mm	1 each
O	G36017.001E	Ash Finger, closed one end, no slits, pure alumina ceramic	15.00-0087	60mm	1 each
P	G16320.001E	Oxygen Lance, pure alumina ceramic, 2 x 1mm	05.00-0658	170mm	1 each
Q	G16310.001E	Oxygen Lance, pure alumina ceramic, 2 x 1mm	05.00-0354	150mm	1 each
R	G16300.001E	Oxygen Lance, pure alumina ceramic, 2 x 1mm	05.00-0088	140mm	1 each
S	G16290.001E	Oxygen Lance, pure alumina ceramic, 2 x 1mm	05.00-2321	90mm	1 each
T	M10376.001E	Ash Finger, Inconel Alloy, open ends, with slits, no tabs	-	60mm	1 each
U	M10380.001E	Sheath Tube, Inconel Alloy, open ends	-	105 mm	1 each
V	M10375.001E	Ash Finger, Inconel Alloy, open ends, with tabs	-	60 mm	1 each



## Scrubbing Tubes



Ref	OEA CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
A	G26010.001E	1each	Scrubbing Tube, GL14 thread, 100mm				22.16-0200/4			
B	G21010.001E G21011.001E	1each 1each	Scrubbing Tube, GL14 thread, 110mm Scrubbing Tube, GL14 thread, 110mm, with caps and silicone/ptfe seals	281 13100	SC0084	071120A		E13501		
C	G21012.001E	1each	Scrubbing Tube, GL14 thread, 140mm							
D	G21015.001E G21016.001E	1each 1 each	Scrubbing Tube, GL14 thread, 220mm Scrubbing Tube, GL14 thread, 110mm, with caps and silicone/ptfe seals		SC2495					
E	G26040.001E	1each	Scrubbing Tube, GL14 thread, 300mm				15.00-0080			
F	G21026.001E	1each	Scrubbing Tube, GL18 thread, 140mm							
G	G21027.001E	1each	Scrubbing Tube, GL18 thread & body with GL14 thread, 140mm							
H	G21028.001E	1each	Scrubbing Tube, GL18 thread, 220mm							
I	G21023.001E	1 each	Scrubbing Tube, GL14 thread, 110mm, 20mm OD body			071124				
J	G21020.001E G21021.001E	1each 1 each	Scrubbing Tube, GL14 thread, 220mm, 20mm OD body Scrubbing Tube, GL14 thread, 220mm, 20mm OD body, with caps and silicone/ptfe seals	281 13090		071126				
K	G21032.001E	1each	Scrubbing Tube, GL32 thread & body with GL14 thread, 140mm							
L	G21031.001E	1each	Scrubbing Tube, GL32 thread, 140mm							
M	G21030.001E	1each	Scrubbing Tube, GL32 thread, 220mm	281 13060 281 13106						
N	G22020.001E	1each	Scrubbing Tube, 10mm OD plain ends, 250mm, 16mm OD body		SC0015					
O	G22010.001E	1each	Scrubbing Tube, S19 cup ends, 250mm, 16mm OD body		SC0040					
P	G25010.001E	1each	Scrubbing Tube, 11mm OD plain ends, 203mm, 25mm OD body							N241-1359
Q	G27150.001E	1each	Scrubbing Tube, 11.2mm ID ends, 152mm						774-638	
R	G27100.001E	1each	Scrubbing Tube, 11.2mm ID ends, 152mm, 25mm body						775-601	
S	G27110.001E	1each	Scrubbing Tube, 11.2mm/22.2mm ID ends, 152mm, 25mm body						601-390	
T	G27120.001E	1each	Scrubbing Tube, 11.2mm ID ends, 101mm						775-880	
U	G27130.001E	1each	Scrubbing Tube, 11.2mm ID ends, 101mm, 25mm body						771-030	
V	G21050.001E	1each	Scrubbing Tube, Ascarite/Anhydron Trap, denitrification, GasBench II	106 8230						



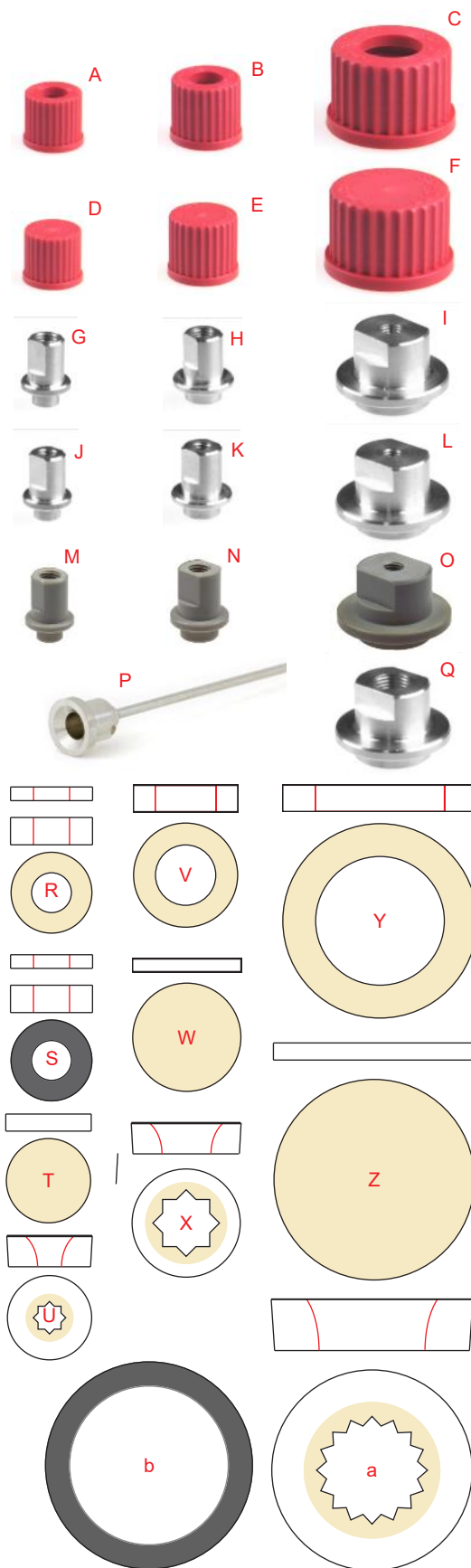


## Scrubbing Tubes & Fittings

### Scrubbing Tube End Fittings and Seals

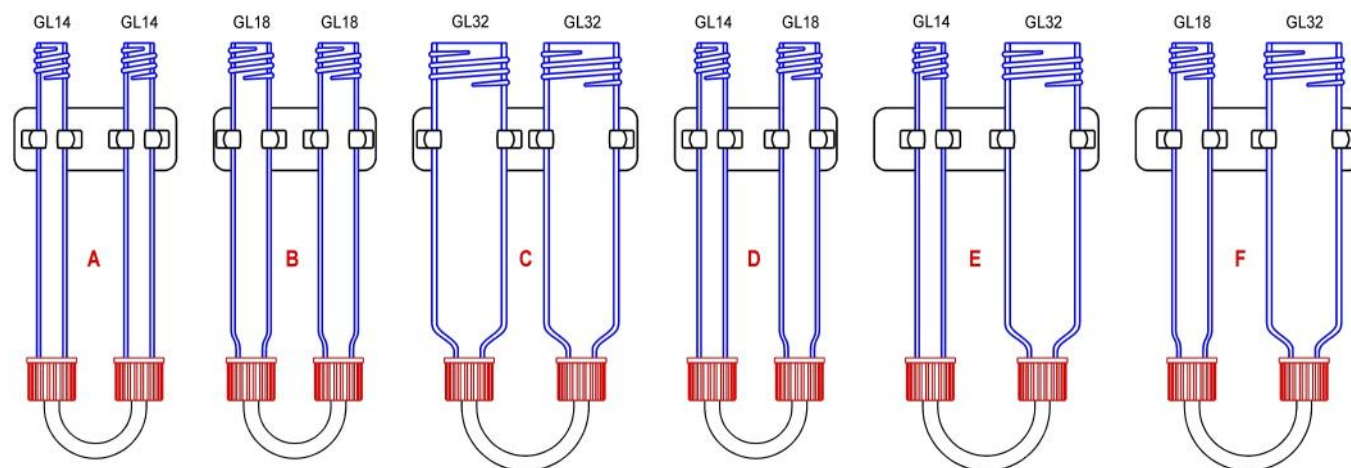
Ref	OEA CatNo	Pack	Description
<b>A</b>	E21755.002P	2 pack	Cap for GL14 Threaded Scrubber, with hole
<b>B</b>	E21753.002P	2 pack	Cap for GL18 Threaded Scrubber, with hole
<b>C</b>	E21760.002P	2 pack	Cap for GL32 Threaded Scrubber, with hole
<b>D</b>	E21756.002P	2 pack	Cap for GL14 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use
<b>E</b>	E21754.002P	2 pack	Cap for GL18 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use
<b>F</b>	E21761.002P	2 pack	Cap for GL32 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use
<b>G</b>	E21758.002P	2 pack	Connector GL14 Threaded Scrubber, stainless steel, 2mm tube, 6MB, 7mm flats, with E21617.002P silicone seals
<b>H</b>	E21783.002P	2 pack	Connector GL18 Threaded Scrubber, stainless steel, 2mm tube, 6MB, 8mm flats, with E21618.002P silicone seals
<b>I</b>	E21763.002P	2 pack	Connector GL32 Threaded Scrubber, stainless steel 2mm tube, 6MB, 14mm flats, with E21619.002P silicone seals
<b>J</b>	E21786.002P	2 pack	Connector GL14 Threaded Scrubber, stainless steel, M5 female thread, 7mm flats, with E21617.002P silicone seals
<b>K</b>	E21788.002P	2 pack	Connector GL18 Threaded Scrubber, stainless steel, M5 female thread, 8mm flats, with E21618.002P silicone seals
<b>L</b>	E21791.002P	2 pack	Connector GL32 Threaded Scrubber, stainless steel, M5 female thread, 14mm flats, with E21619.002P silicone seals
<b>M</b>	E21832.002P	2 pack	Connector GL14 Threaded Scrubber, PEEK high performance polymer, 2mm tube, 6MB, 7mm flats, with E21617.002P silicone seals and E22151.010P viton ferrules. Not for use with 2mm aluminium ferrules.
<b>N</b>	E21831.002P	2 pack	Connector GL18 Threaded Scrubber, PEEK high performance polymer, 2mm tube, 6MB, 8mm flats, with E21618.002P silicone seals and E22151.010P viton ferrules. Not for use with 2mm aluminium ferrules.
<b>O</b>	E21830.002P	2 pack	Connector GL32 Threaded Scrubber, PEEK high performance polymer, 2mm tube, 6MB, 14mm flats, with E21619.002P silicone seals and E22151.010P viton ferrules. Not for use with 2mm aluminium ferrules.
<b>P</b>	E21728.001E	1 each	Connector GL14 Threaded Scrubber, stainless steel, 'top hat', with 280mm 2mm tubing
<b>Q</b>	E21793.002P	2 pack	Connector GL32 Threaded Scrubber, stainless, 1/8" NPT female, 14mm flats, with E21619.002P silicone seals
<b>R</b>	E21614.002P E21617.002P	2 pack 2 pack	Seal, Silicone, GL14 thread, half thickness Seal, Silicone, GL14 thread, standard thickness
<b>S</b>	E21612.002P E21613.002P	2 pack 2 pack	Seal, Viton, GL14 thread, half thickness Seal, Viton, GL14 thread, standard thickness
<b>T</b>	E21616.002P	2 pack	Seal, Silicone, GL14, for sealing off GL14 scrubbing tubes when not in use
<b>U</b>	E21615.002P	2 pack	Seal, PTFE Faced Silicone, GL14 thread, for GL14 'top hat' E21728.001E scrubbing tube fittings
<b>V</b>	E21618.002P	2 pack	Seal, Silicone, GL18 thread, standard thickness
<b>W</b>	E21623.002P	2 pack	Seal, Silicone, GL18, for sealing off GL18 scrubbing tubes when not in use
<b>X</b>	E21622.002P	2 pack	Seal, PTFE faced Silicone GL18 thread, for GL18 scrubbing tubes
<b>Y</b>	E21619.002P	2 pack	Seal, Silicone, GL32 thread, standard thickness
<b>Z</b>	E21621.002	2 pack	Seal, Silicone, GL32, for sealing off GL32 scrubbing tubes when not in use
<b>a</b>	E21620.002P	2 pack	Seal, PTFE faced Silicone GL32 thread, for GL32 scrubbing tubes
<b>b</b>	E21663.002P	2 pack	O Ring, Viton, for large threaded acrylic scrubbing tubes

For seals, options and assembly details see 'Scrubbing Tubes and Parts' section of this catalogue.





## Scrubbing Tube Assemblies and Parts



### Scrubbing Tube Assemblies

Ref	OEA CatNo	Pack	Description	First Scrubbing Tube	Second Scrubbing Tube	Scrubbing Tube Length	Distance Between Centres	Overall Height
A	G21100.001E	1 each	Scrubbing Tube Assembly GL14/GL14, complete with scrubbing tubes, 65mm clip plate, GL14 lower caps, seals and stainless steel link tube, upper connection fittings not included (please see following pages for options).	GL14/GL14 CatNo G21012.001E	GL14/GL14 CatNo G21012.001E	140mm	35mm	166mm
B	G21110.001E	1 each	Scrubbing Tube Assembly GL18/GL18, complete with scrubbing tubes, 65mm clip plate, GL14 lower caps, seals and stainless steel link tube, upper connection fittings not included (please see following pages for options).	GL18/GL14 CatNo G21027.001E	GL18/GL14 CatNo G21027.001E	140mm	35mm	166mm
C	G21120.001E	1 each	Scrubbing Tube Assembly GL32/GL32, complete with scrubbing tubes, 90mm clip plate, GL14 lower caps, seals and stainless steel link tube, upper connection fittings not included (please see following pages for options).	GL32/GL14 CatNo G21032.001E	GL32/GL14 CatNo G21032.001E	140mm	45mm	171mm
D	G21130.001E	1 each	Scrubbing Tube Assembly GL14/GL18, complete with scrubbing tubes, 65mm clip plate, GL14 lower caps, seals and stainless steel link tube, upper connection fittings not included (please see following pages for options).	GL14/GL14 CatNo G21012.001E	GL18/GL14 CatNo G21027.001E	140mm	35mm	166mm
E	G21140.001E	1 each	Scrubbing Tube Assembly GL14/GL32, complete with scrubbing tubes, 90mm clip plate, GL14 lower caps, seals and stainless steel link tube, upper connection fittings not included (please see following pages for options).	GL14/GL14 CatNo G21012.001E	GL32/GL14 CatNo G21032.001E	140mm	45mm	171mm
F	G21150.001E	1 each	Scrubbing Tube Assembly GL18/GL32, complete with scrubbing tubes, 90mm clip plate, GL14 lower caps, seals and stainless steel link tube, upper connection fittings not included (please see following pages for options).	GL18/GL14 CatNo G21027.001E	GL32/GL14 CatNo G21032.001E	140mm	45mm	171mm

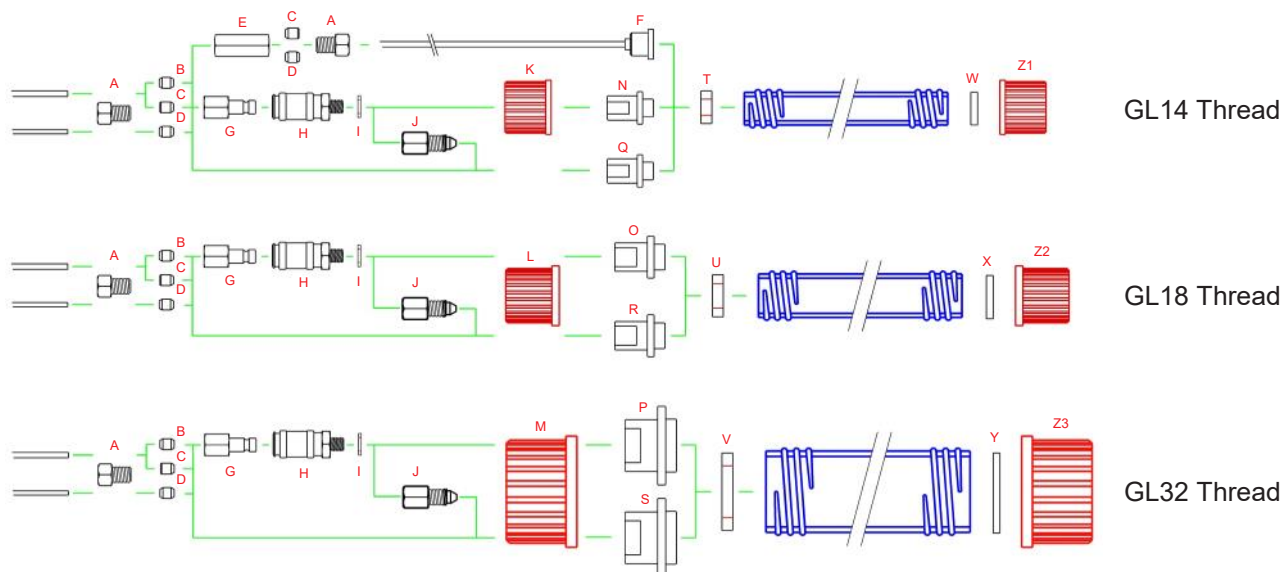
Scrubbing Tube Assemblies can be supplied with scrubbing tubes of other lengths as required. Please enquire.

### Scrubbing Tube Assembly Spare Parts

OEA CatNo	Pack	Description
E21910.001E	1 each	Clip Plate, 65mm, with M3 threaded inserts, without clips
E21920.001E	1 each	Clip Plate, 90mm, with M3 threaded inserts, without clips
E21930.001E	1 each	Clip, plastic coated, for GL14 body scrubbing tubes
E21932.001E	1 each	Clip, plastic coated, for GL18 body scrubbing tubes
E21935.001E	1 each	Clip, plastic coated, for GL32 body scrubbing tubes
E21940.010P	10 pack	Screw & Washer Kit, M3 x 6mm
E21950.001E	1 each	Linking Tube, 35mm centres, stainless steel
E21955.001E	1 each	Linking Tube, 45mm centres, stainless steel
E21755.002P	2 pack	Cap for GL14 Threaded Scrubber, with hole
E21617.002P	2 pack	Seal for GL14 Threaded Scrubber, silicone



## GL14, GL18 & GL32 Threaded Scrubbing Tube Parts



Ref	OEA CatNo	Pack	Description
A	E21723.010P	10 pack	Tubing Nut, 2mm, stainless steel
B	E21724.010P E21745.010P	10 pack	Tubing Olive, 2mm, aluminium, symmetrical, type 1 Tubing Olive, PTFE, 2mm, symmetrical, type 1
C	E21727.010P	10 pack	Tubing Olive, 2mm, aluminium, asymmetrical, type 2
D	E21725.010P	10 pack	Tubing Olive, 1/16", aluminium, symmetrical, type 3
E	E21726.001E E21746.001E	1 each 1 each	Tubing Connector, brass, 2mm tube to 2mm tube Tubing Connector, stainless steel, 2mm tube to 2mm tube
F	E21728.001E	1 each	Connector GL14 Threaded Scrubber, stainless steel, 'top hat', with 280mm 2mm tubing
G	E21740.001E	1 each	Fast Connector Male Plug Coupling, 2mm, 6MB
H	E21741.001E	1 each	Fast Connector Female Body Coupling, M5 male thread
I	E21633.010P	10 pack	Seal/Gasket, Nylon, for M5 autosampler ports and fast connect connections to scrubbing tubes
J	E21742.001E	1 each	Adaptor, Brass, 2mm tube port (6MB) thread to M5 female
K	E21755.002P	2 pack	Cap for GL14 Threaded Scrubber, with hole
L	E21753.002P	2 pack	Cap for GL18 Threaded Scrubber, with hole
M	E21760.002P	2 pack	Cap for GL32 Threaded Scrubber, with hole
N	E21786.002P	2 pack	Connector GL14 Threaded Scrubber, stainless steel, M5 female thread
O	E21788.002P	2 pack	Connector GL18 Threaded Scrubber, stainless steel, M5 female thread
P	E21791.002P	2 pack	Connector GL32 Threaded Scrubber, stainless steel, M5 female thread
Q	E21758.002 E21832.002P	2 pack 2 pack	Connector GL14 Threaded Scrubber, stainless steel, 2mm, 6MB Connector GL14 Threaded Scrubber, PEEK, 2mm tube, 6MB, not for use with aluminium ferrules, use E22151.010P Viton O Rings
R	E21783.002P E21831.002P	2 pack 2 pack	Connector GL18 Threaded Scrubber, stainless steel, 2mm, 6MB Connector GL18 Threaded Scrubber, PEEK, 2mm, 6MB, not for use with aluminium ferrules, use E22151.010P Viton O Rings
S	E21763.002P E21832.002P	2 pack 2 pack	Connector GL32 Threaded Scrubber, stainless steel, 2mm, 6MB Connector GL32 Threaded Scrubber, PEEK, 2mm, 6MB, not for use with aluminium ferrules, use E22151.010P Viton O Rings
-	E22151.010P	10 pack	O Ring, viton, small, for use with PEEK fittings
T	E21614.002P E21617.002P E21612.002P E21613.002P	2 pack 2 pack 2 pack 2 pack	Seal, Silicone, GL14 thread, half thickness Seal, Silicone, GL14 thread, standard thickness Seal, Viton, GL14 thread, half thickness Seal, Viton, GL14 thread, standard thickness
U	E21618.002P	2 pack	Seal, Silicone, GL18 thread, standard thickness
V	E21619.002P	2 pack	Seal, Silicone, GL32 thread, standard thickness
W	E21616.002P	2 pack	Seal for GL14 Threaded Scrubber, silicone, for sealing off scrubbing tubes when not in use
X	E21623.002P	2 pack	Seal for GL18 Threaded Scrubber, silicone, for sealing off scrubbing tubes when not in use
Y	E21621.002P	2 pack	Seal for GL32 Threaded Scrubber, silicone, for sealing off scrubbing tubes when not in use
Z1	E21756.002P	2 pack	Cap for GL14 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use
Z2	E21754.002P	2 pack	Cap for GL18 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use
Z3	E21761.002P	2 pack	Cap for GL32 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use



## Separation (GC) Columns



High quality separation columns are essential for optimum analytical performance. Our columns are manufactured, conditioned and tested here at OEA Laboratories so you can be sure that your peaks will be separated perfectly time after time.

Sometimes a new column is not necessary - it may just need reconditioning. Please call us to discuss your problem or application.

If you need a column that is not listed please contact us. All columns are conditioned and supplied with test documentation and chromatograms which provide peak resolution and retention time under typical running conditions.

**All OEA Labs columns are suitable for Elemental Analysis (EA) and/or Isotope Ratio Mass Spectrometry (IRMS) applications.**

### CHN and NC Analysis Separation Columns

CatNo	CHN and NC Column Description	Thermo PartNo	Costech PartNo	Euro Vector PartNo	Sercon PartNo	Pack
E21510.001E	CHN/NC Separation Column, 2m, 6x5mm, SS, PQS, 2mm unions	260 07920 260 08200	51081	E11505	n/a	pk1
E21513.001E	CHN/NC Separation Column, 2m, 6x5mm, PTFE, PQS, 2mm unions	260 08220	no equiv	no equiv	n/a	pk1
E21516.001E	NC Separation Column, 3m, 6x5mm, SS, PQS, 2mm unions	260 07931 260 08205	51082	E11510	n/a	pk1
E21530.001E	NC Separation Column, 4m, 6x5mm, SS, PQS, 2mm unions	no equiv	51085	no equiv	n/a	pk1
E21533.001E	NC Separation Column, 0.7m, 6x5mm, SS, Carbosieve, 2mm unions	no equiv	no equiv	E11528IG	n/a	pk1
E21536.001E	NC Separation Column, 0.5m, 1/4" x 0.154", SS, Carbosieve, 2mm unions, high performance	no equiv	no equiv	no equiv	n/a	pk1
E21538.001E	NC Separation Column, 0.8m, 1/4" x 0.154", SS, Carbosieve, 2mm unions, high performance	no equiv	no equiv	no equiv	n/a	pk1
E21550.001E	NC Separation Column, Anca, 0.5m x 1/4" SS, Carbosieve, 1/8" Swagelok unions	n/a	n/a	n/a	SC2259 SC2011	pk1
E21555.001E	NC Separation Column, Integra, 0.5m x 1/4" SS, Carbosieve, 1/8" Swagelok unions	n/a	n/a	n/a		pk1
E21563.001E	NC Separation Column, Roboprep, 0.5m x 1/4" SS, Carbosieve, 1/8" Swagelok unions	n/a	n/a	n/a	SC0112 SC2013	pk1

### CHNS and NCS Analysis Separation Columns

CatNo	CHNS and NCS Column Description	Thermo PartNo	Costech PartNo	Euro Vector PartNo	Sercon PartNo	Pack
E21514.001E	CHNS/NCS Separation Column, 2m, 6x5mm, SS, PQSW, 2mm unions	260 08206	51080	E11501	n/a	pk1
E21515.001E	CHNS/NCS Separation Column, 2m, 6x5mm, PTFE, PQSW, 2mm unions	260 08215 260 08208	no equiv	E11530	n/a	pk1
E21522.001E	CHNS Separation Column, 3m, 6x5mm, SS, PQSW, 2mm unions	no equiv	51086	no equiv	n/a	pk1
E21523.001E	CHNS Separation Column, 2m, 1/4" SS Sulfinert, PQSW, 2mm bored thru unions	no equiv	no equiv	no equiv	n/a	pk1
E21524.001E	CHNS Separation Column, 2m, 1/4" SS Sulfinert, PQSW, 1/16" bored thru Swagelok	no equiv	no equiv	no equiv	n/a	pk1
E21525.001E	CHNS Separation Column, 2m, 1/4" SS Sulfinert, PQSW, 1/16" Sulfinert Swagelok	no equiv	no equiv	no equiv	n/a	pk1

### Hydrogen Analysis Separation Columns

CatNo	Hydrogen Column Description	Thermo PartNo	Costech PartNo	Euro Vector PartNo	Sercon PartNo	Pack
E21540.001E	Hydrogen and/or Oxygen Separation Column, 0.6m, 1/4" x 0.154", SS, MolSieve, 1/4" Swagelok unions	112 1030	n/a	n/a	n/a	pk1

PQS - Porapak QS or equivalent; PQSW - Porapak QS processed for sulphur applications; ActCarb - Activated Carbon; MolSieve - Molecular Sieve; Carbosieve - Carbosieve G; Sulfinert - specialist treated tubing and/or fittings for sulphur applications; bored thru - fittings bored through so the carrier gas does not contact metal parts; no equiv - no OEM equivalent part but suitable for use in other manufacturers' instrumentation; SS - stainless steel; FPD - Flame Photometric Detection; n/a - not applicable to stated OEM instrument.

*Continued . . .*





## Separation (GC) Columns for Elemental Analysis & IRMS



### Continued . . . Separation (GC) Columns

#### Oxygen Analysis Separation Columns

CatNo	Oxygen Column Description	Thermo PartNo	Costech PartNo	Euro Vector PartNo	Sercon PartNo	Pack
E21518.001E	Oxygen Separation Column, 1m, 6x5mm, SS, MolSieve, 2mm unions	260 07900	51084	E11520	n/a	pk1
E21532.001E	Oxygen Separation Column, 1.5m, 6x5mm, SS, MolSieve, 2mm unions	no equiv	no equiv	E11521IG	n/a	pk1
E21531.001E	Oxygen Separation Column, 2m, 6x5mm, SS, MolSieve, 2mm unions	no equiv	51088	no equiv	n/a	pk1
E21564.001E	Oxygen/Hydrogen Separation Column, Anca, 1m x 1/4" SS, MolSieve, 1/8" Swagelok unions	n/a	n/a	n/a	SC2010	pk1
E21565.001E	Oxygen Separation Column, Anca, 1.5m x 1/4" SS, MolSieve, 1/8" Swagelok unions	n/a	n/a	n/a	SC2000	pk1
E21540.001E	Hydrogen and/or Oxygen Separation Column, 0.6m, 1/4" x 0.154", SS, MolSieve, 1/4" Swagelok unions	112 1030	n/a	n/a	n/a	pk1

#### Sulphur Analysis Separation Columns

CatNo	Sulphur Column Description	Thermo PartNo	Costech PartNo	Euro Vector PartNo	Sercon PartNo	Pack
E21519.001E	Sulphur Column, 0.8m, 6x4mm, PTFE, PQSW, 2mm unions	260 07800	51083	E11516	n/a	pk1
E21526.001E	Sulphur Column, 1m, 6x5mm, SS, PQSW, 2mm unions	260 07910	no equiv	E11517-iG	n/a	pk1
E21520.001E	Sulphur (Trace) Separation Column, 0.5m, 6x4mm, PTFE, PQSW, 2mm unions	260 18500	no equiv	no equiv	n/a	pk1
E21527.001E	Sulphur (FPD Trace) Separation Column, 0.15m, 6x4mm, PTFE, PQSW, 2mm unions	260 07801	no equiv	no equiv	n/a	pk1
E21560.001E	Sulphur Separation Column, Anca, 0.3m, 1/8" SS, PQSW, 1/8" Swagelok unions	n/a	n/a	n/a	SC2461	pk1
E21566.001E	Sulphur Separation Column, Anca, 0.8m x 1/4" SS, PQSW, 1/8" Swagelok unions	n/a	n/a	n/a	SC2012	pk1
E21561.001E	Sulphur Separation Column, Anca, 0.8m x 6x4mm PTFE, PQSW, 1/8" Swagelok unions	n/a	n/a	n/a	no equiv	pk1
E21562.001E	Sulphur Separation Column, Anca, 1.2m x 6x4mm PTFE, PQSW, 1/8" Swagelok unions	n/a	n/a	n/a	no equiv	pk1

#### Nitrogen & Protein Analysis Separation Columns

CatNo	Nitrogen Protein Column Description	Thermo PartNo	Costech PartNo	Euro Vector PartNo	Sercon PartNo	Pack
E21521.001E	Nitrogen/Protein Separation Column, 0.5m, 8x6mm, PTFE, ActCarb, 2mm unions	260 07820	no equiv	no equiv	n/a	pk1
E21528.001E	Nitrogen/Protein Separation Column, 1m, 8x6mm, PTFE, ActCarb, 2mm unions	260 70004	no equiv	no equiv	n/a	pk1
E21529.001E	Nitrogen/Protein Separation Column, 0.84m, 8x6mm, PTFE, ActCarb, 2mm unions	260 08230	no equiv	no equiv	n/a	pk1

PQS - Porapak QS or equivalent; PQSW - Porapak QS processed for sulphur applications; ActCarb - Activated Carbon; MolSieve - Molecular Sieve; Carbosieve - Carbosieve G; Sulfinert - specialist treated tubing and/or fittings for sulphur applications; bored thru - fittings bored through so the carrier gas does not contact metal parts; no equiv - no OEM equivalent part but suitable for use in other manufacturers' instrumentation; SS - stainless steel; FPD - Flame Photometric Detection; n/a - not applicable to stated OEM instrument.



**Isotope Ratio Mass Spectrometers - "all products manufactured by OEA Laboratories are of the highest quality and are recommended for use with Elemental Analysers that are interfaced to IRMS instruments."**



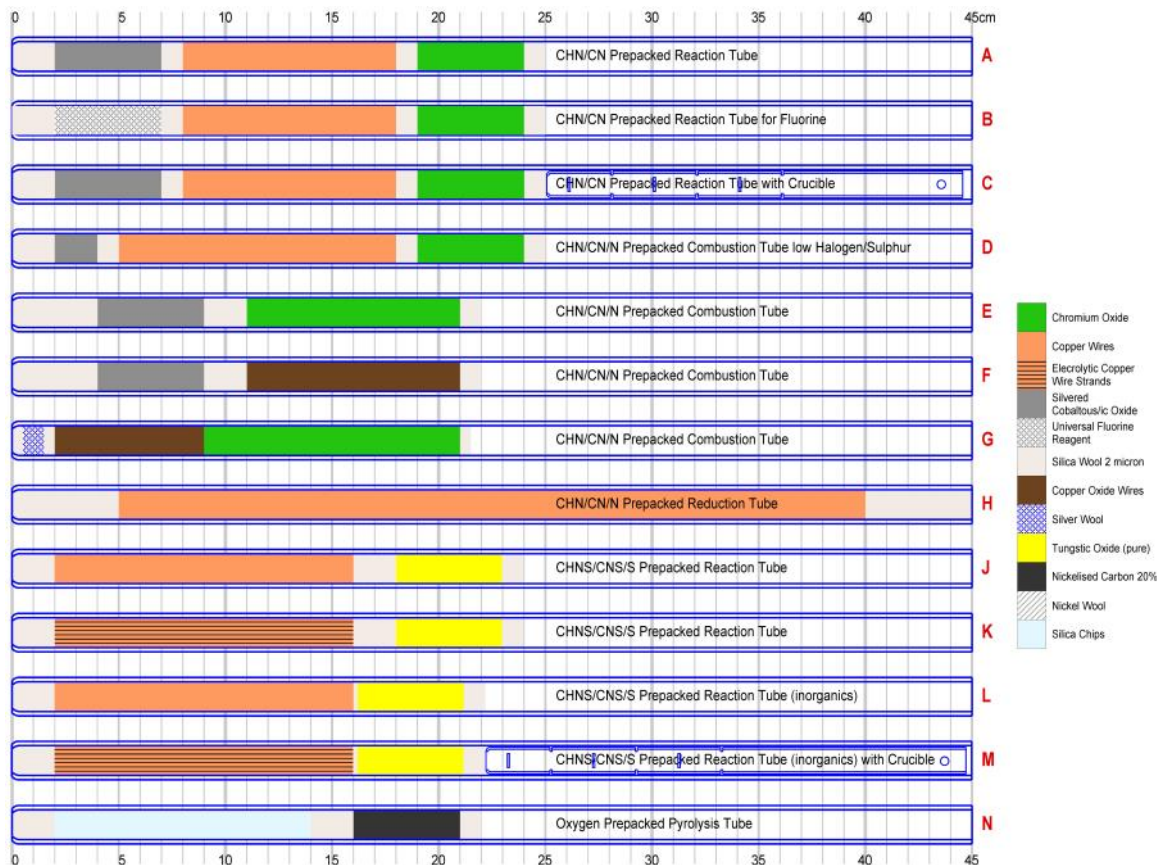


## Prepacked Reaction Tubes

Our prepacked tubes are a cost effective alternative to packing your own tubes. They cost very little more than the tube and reagents purchased separately and can be used immediately without the need to stock individual reagents. For long term storage stability we purge the finished reaction tubes with argon, cap off the ends and seal in special plastic sleeves for additional protection. We can prepack to your own specification if required.



### Thermo Flash EA1112 & EA2000 Elemental Analyser Prepacked Tubes



Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Thermo EA1112 & EA2000 Prepacked Reaction Tubes	Thermo Part No.	Crucible Length (optional)	Pack Size
A	P13005.001E	P13006.001E	CHN Prepacked Reaction Tube, 18/18T/450mm transparent silica tube	468 02009	195mm	1 each
B	P13007.001E	P13008.001E	CHN Prepacked Reaction Tube, for fluorine samples, 18/18T/450mm transparent silica tube	-	195mm	1 each
C	P13015.001E	na	CHN Prepacked Reaction Tube with Crucible, 18/18T/450mm transparent silica tube, supplied with 1 x G31195.001E 195mm crucible	468 02014	195mm	1 each
D	P13009.001E	P13010.001E	CHN/CN/N Prepacked Reaction Tube, for low halogens/sulphur, 18/18T/450mm transparent silica tube		195mm	1 each
E	P33005.001E	P33006.001E	CHN/CN/N Prepacked Combustion Tube, 18/18T/450mm transparent silica tube	468 20076	225mm	1 each
F	P33305.001E	P33306.001E	CHN/CN/N Prepacked Combustion Tube, 18/18T/450mm transparent silica tube		225mm	1 each
G	P30305.001E	P30306.001E	CHN/CN/N Prepacked Combustion Tube, 18/18T/450mm transparent silica tube		225mm	1 each
H	P43005.001E	P43006.001E	CHN/CN/N Prepacked Reduction Tube, 18/18T/450mm transparent silica tube	468 20077	n/a	1 each
J	P23005.001E	P23006.001E	CHNS/CNS/S Prepacked Reaction Tube, standard copper wires 4 x 0.5mm, 18/18T/450mm transparent silica tube		205mm	1 each
K	P23007.001E	na	CHNS/CNS/S Prepacked Reaction Tube, 140mm long electrolytic copper strands, 18/18T/450mm transparent silica tube	468 02015	205mm	1 each
L	P23015.001E	P23017.001E	CHNS/CNS/S Prepacked Reaction Tube, standard copper wires 4 x 0.5mm, 18/18T/450mm transparent silica tube, modified for inorganics, soils and minerals		225mm	1 each
M	P23016.001E	na	CHNS/CNS/S Prepacked Reaction Tube with Crucible, 140mm long electrolytic copper strands, 18/18T/450mm transparent silica tube, modified for inorganics, soils and minerals, supplied with 1 x G31225.001E 225mm crucible	468 02016	225mm	1 each
N	P53005.001E	P53006.001E	Oxygen Prepacked Pyrolysis Tube, 18/18T/450mm transparent silica tube		225mm	1 each

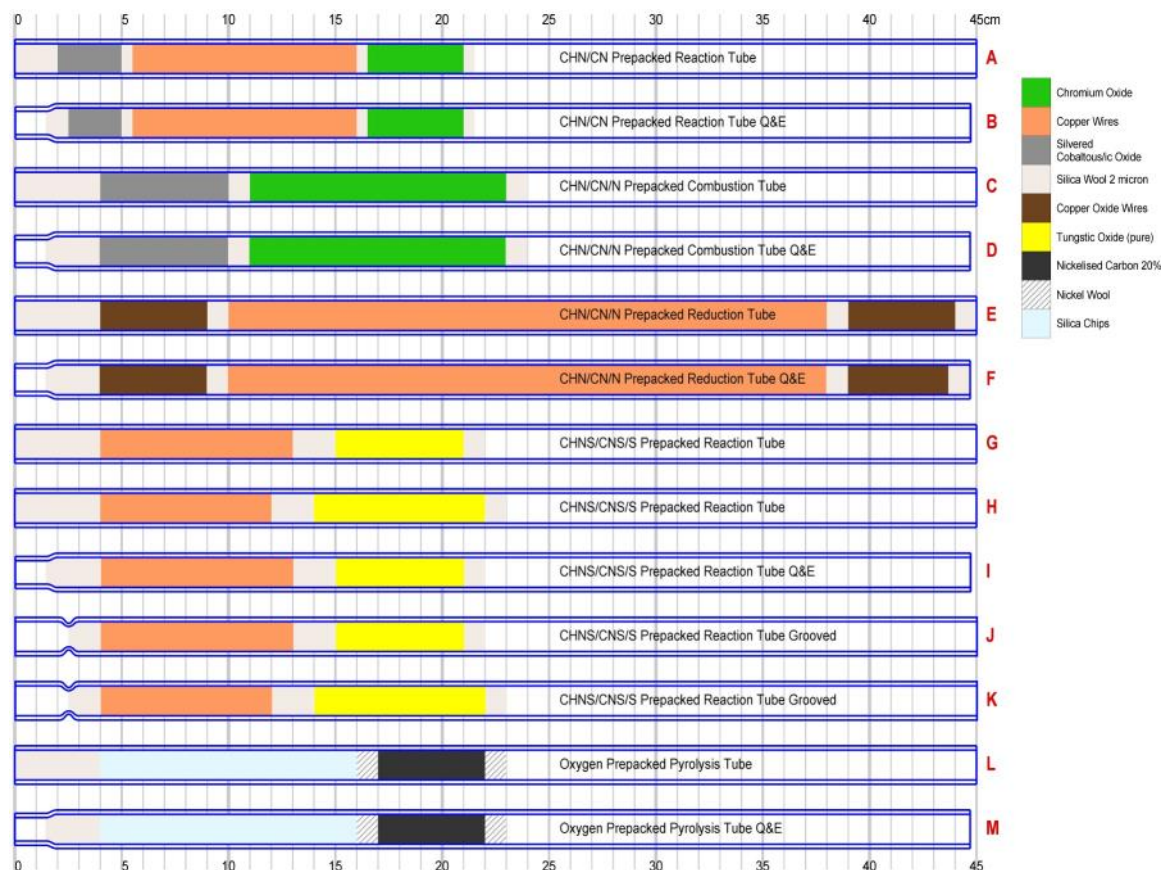
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## Prepacked Reaction Tubes for Elemental Analysers

### Continued . . . Prepacked Reaction Tubes

#### Thermo EA1110 and EA1108 Elemental Analyser Prepacked Tubes



Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Thermo EA1110 & EA1108 Prepacked Reaction Tubes	Thermo Part No.	Crucible Length (optional)	Pack Size
<b>A</b>	P11101.001E	P11102.001E	CHN/CN/N Prepacked Reaction Tube, 18/18/450mm transparent silica tube		230mm	1 each
<b>B</b>	P11111.001E	P11112.001E	CHN/CN/N Prepacked Reaction Tube, 18/11.2mmID/447mm, Q&E, transparent silica tube		230mm	1 each
<b>C</b>	P31261.001E	P31262.001E	CHN/CN/N Prepacked Combustion Tube, 18/18/450mm transparent silica tube		205mm	1 each
<b>D</b>	P31210.001E	P31220.001E	CHN/CN/N Prepacked Combustion Tube, 18/11.2mmID/447mm, Q&E, transparent silica tube		205mm	1 each
<b>E</b>	P41261.001E	P41262.001E	CHN/CN/N Prepacked Reduction Tube, 18/18/450mm transparent silica tube		n/a	1 each
<b>F</b>	P41210.001E	P41220.001E	CHN/CN/N Prepacked Reduction Tube, 18/11.2mmID/447mm, Q&E, transparent silica tube		n/a	1 each
<b>G</b>	P22001.001E	P22002.001E	CHNS/CNS/S Prepacked Reaction Tube, 18/18/450mm transparent silica tube	468 02005	225mm	1 each
<b>H</b>	P21001.001E	P21002.001E	CHNS/CNS/S Prepacked Reaction Tube, EA1108, 18/18/450mm transparent silica tube	468 02021	215mm	1 each
<b>I</b>	P22010.001E	P22020.001E	CHNS/CNS/S Prepacked Reaction Tube, 8/11.2mmID/447mm, Q&E, transparent silica tube		225mm	1 each
<b>J</b>	P22030.001E	P22040.001E	CHNS/CNS/S Prepacked Reaction Tube, 18/18/450mm transparent grooved silica tube		225mm	1 each
<b>K</b>	P21030.001E	P21040.001E	CHNS/CNS/S Prepacked Reaction Tube, EA1108, 18/18/450mm transparent grooved silica tube		215mm	1 each
<b>L</b>	P51201.001E	P51202.001E	Oxygen Prepacked Pyrolysis Tube, 18/18/450mm transparent silica tube		215mm	1 each
<b>M</b>	P51210.001E	P51220.001E	Oxygen Prepacked Pyrolysis Tube, 18/11.2mmID/447mm transparent silica tube		215mm	1 each

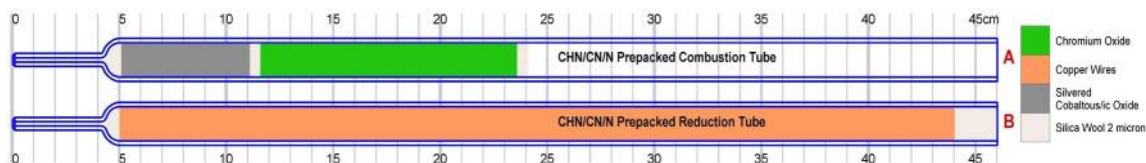
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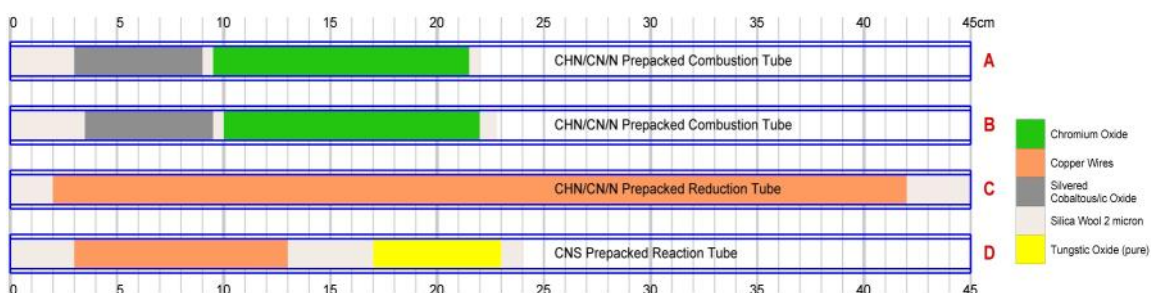
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### Thermo NA1500 Series 1 Elemental Analyser Prepacked Tubes



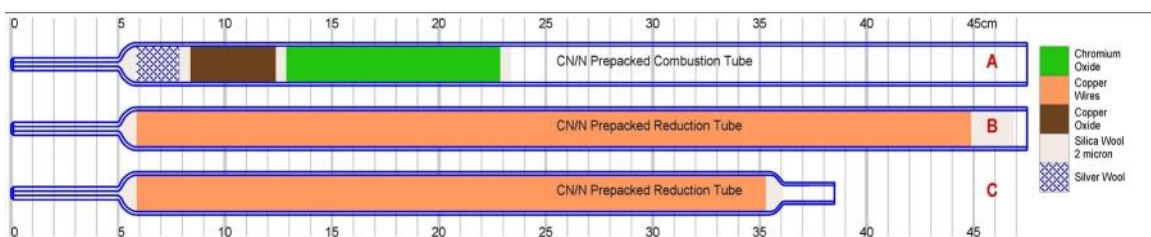
Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Thermo NA1500 Series 1 Prepacked Reaction Tubes	Thermo Part No.	Crucible Length (optional)	Pack Size
<b>A</b>	P34007.001E	P34008.001E	CHN/CN/N Prepacked Combustion Tube, 19.5/6/460 transparent silica tube		180/220mm	1 each
<b>B</b>	P44007.001E	P44008.001E	CHN/CN/N Prepacked Reduction Tube, 19.5/6/460 transparent silica tube		n/a	1 each

### Thermo NA1500 Series 2 & NA2500 Elemental Analyser Prepacked Tubes



Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Thermo NA1500 Series 2 & NA2500 Prepacked Reaction Tubes	Thermo Part No.	Crucible Length (optional)	Pack Size
<b>A</b>	P35001.001E	P35002.001E	CHN/CN/N Prepacked Combustion Tube, 18/18/450mm transparent silica tube		225mm	1 each
<b>B</b>	P36001.001E		CHN/CN/N Prepacked Combustion Tube, 18/18/450mm transparent silica tube		215mm	1 each
<b>C</b>	P45001.001E	P45002.001E	CHN/CN/N Prepacked Reduction Tube, 18/18/450mm transparent silica tube		n/a	1 each
<b>D</b>	P25601.001E	P25602.001E	NCS/S Prepacked Reaction Tube, 18/18/450mm transparent silica tube	468 02005	205mm	1 each

### Sercon / Europa ANCA SL, ANCA GSL, Roboprep, Integra & Sercon EA Prepacked Tubes



Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Sercon / Europa ANCA SL, ANCA GSL, Roboprep, Integra & EA Prepacked Tubes	Sercon Part No.	Crucible Length (optional)	Pack Size
<b>A</b>	P39007.001E	P39008.001E	CHN/CN/N Prepacked Combustion Tube, 19.5/6/475mm transparent silica tube		180/220mm	1 each
<b>B</b>	P49007.001E	P49008.001E	CHN/CN/N Prepacked Reduction Tube, 19.5/6/475mm transparent silica tube		n/a	1 each
<b>C</b>		P49009.001E	CHN/CN/N Prepacked Reduction Tube, 10/19.5/385 transparent silica tube		n/a	1 each

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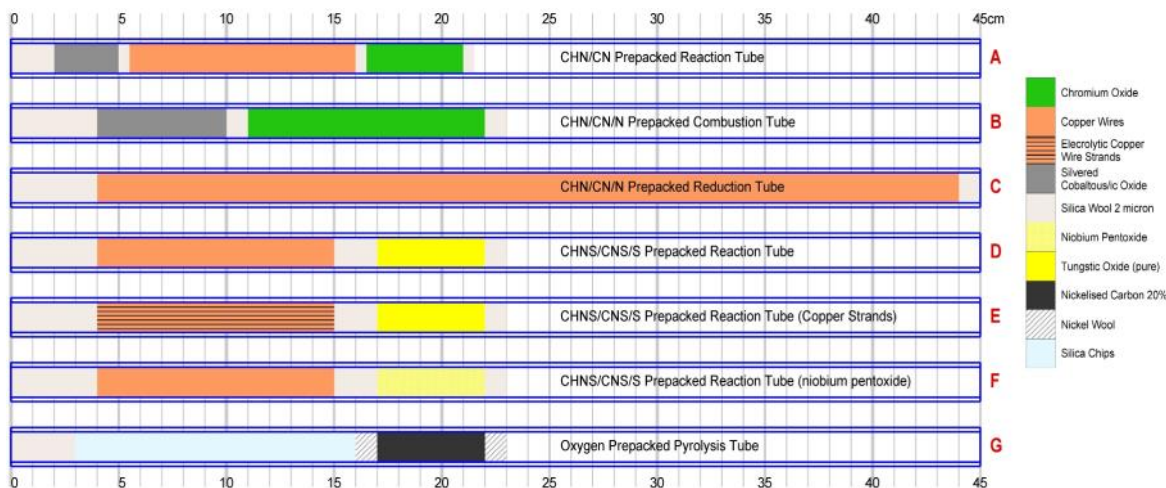


## Prepacked Reaction Tubes for Elemental Analysers



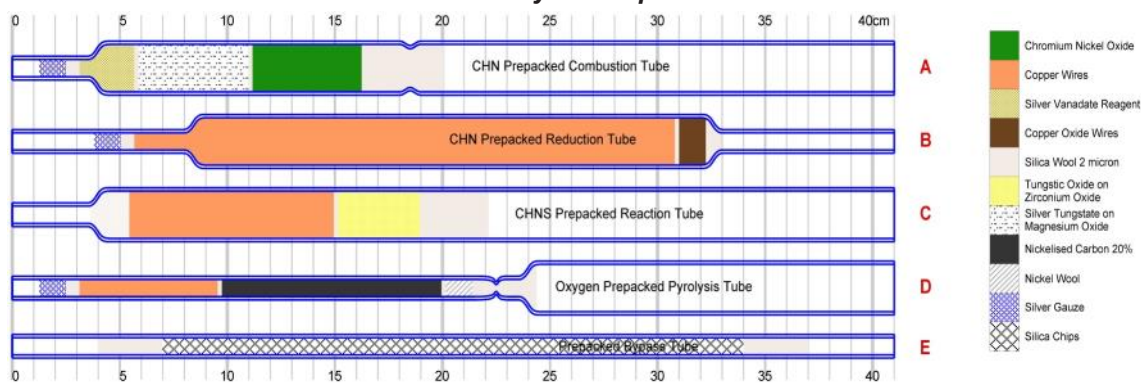
### Continued . . . Prepacked Reaction Tubes

#### Costech ECS4010 Elemental Analyser Prepacked Tubes



Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Costech ECS4010 Prepacked Reaction Tubes	Costech Part No.	Crucible Length (optional)	Pack Size
<b>A</b>	P11101.001E	P11102.001E	CHN/CN/N Prepacked Reaction Tube, 18/18/450mm transparent silica tube		230mm	1 each
<b>B</b>	P37001.001E	P37002.001E	CHN/CN/N Prepacked Combustion Tube, 18/18/450mm transparent silica tube		215mm	1 each
<b>C</b>	P47001.01E	P47002.01E	CHN/CN/N Prepacked Reduction Tube, 18/18/450mm transparent silica tube		n/a	1 each
<b>D</b>	P27001.001E	P27002.001E	CHNS/CNS/S Prepacked Reaction Tube, 18/18/450mm transparent silica tube	061110	215mm	1 each
<b>E</b>	P27703.001E	P27704.001E	CHNS/CNS/S Prepacked Reaction Tube, 110mm long electrolytic copper strands, 18/18/450mm transparent silica tube	061110	215mm	1 each
<b>F</b>	P27701.001E	P27702.001E	CHNS/CNS/S Prepacked Reaction Tube, niobium pentoxide, 18/18/450mm transparent silica tube	061114	215mm	1 each
<b>G</b>	P57001.001E	P57002.001E	Oxygen Prepacked Pyrolysis Tube, 18/18/450mm transparent silica tube		215mm	1 each

#### Perkin Elmer 2400 & 2410 Elemental Analyser Prepacked Tubes



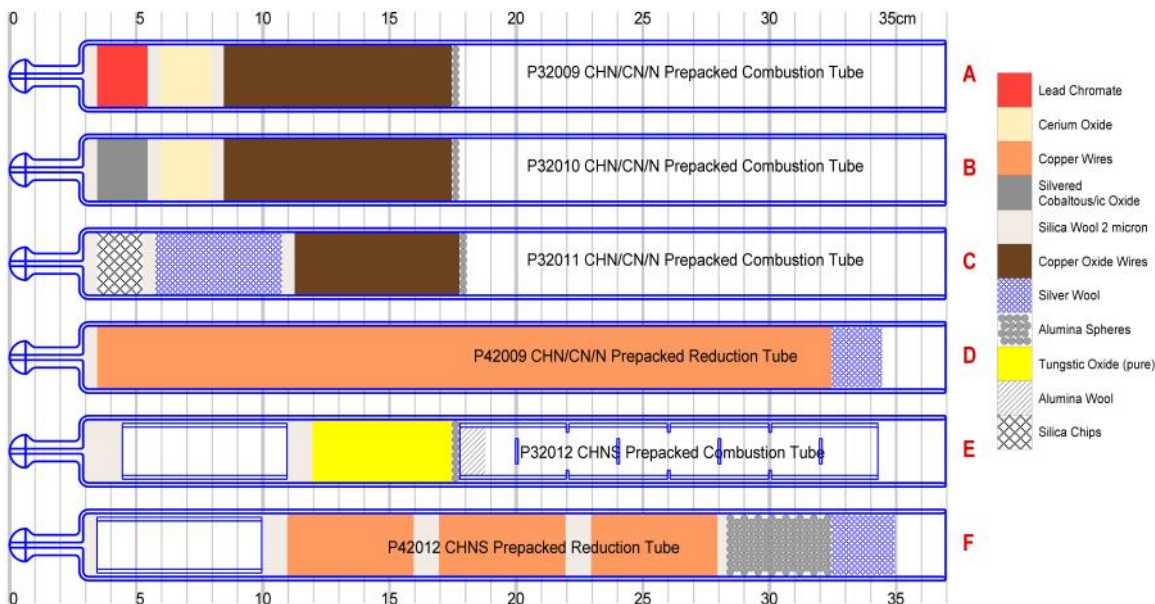
Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Perkin Elmer 2400 & 2410 Prepacked Reaction Tubes	Perkin Elmer Part No.	Pack Size
<b>A</b>	n/a	P30050.001E	CHN Prepacked Combustion Tube, 11/25G/410mm transparent silica tube	N2410695	1 each
<b>B</b>	n/a	P40060.001E	CHN Prepacked Reduction Tube, 11/25/11/410mm transparent silica tube	N2410694	1 each
<b>C</b>	n/a	P20050.001E	CHNS Prepacked Reaction Tube, 11/25/410 transparent silica tube	N2410693	1 each
<b>D</b>	n/a	P50050.001E	Oxygen Prepacked Combustion Tube, 11/25/410mm transparent silica tube	N2410696	1 each
<b>E</b>	n/a	P90070.001E	Prepacked Bypass Tube, 11/11/410mm transparent silica tube	-	1 each

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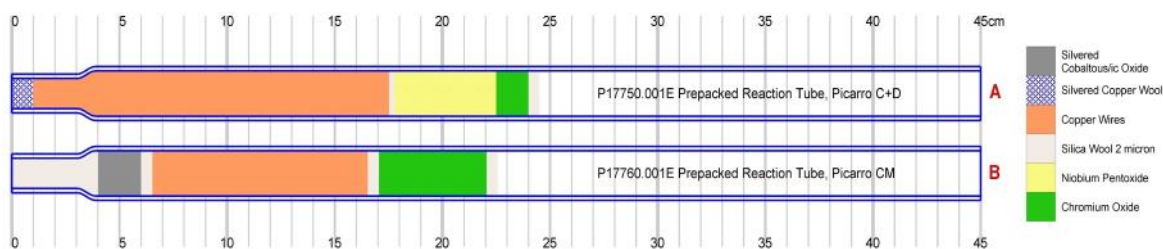
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### Elementar Vario EL & Vario Micro Cube Elemental Analyser Prepacked Tubes



Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Elementar Vario EL & Vario Cube Prepacked Reaction Tubes	Elementar Part No.	Crucible Length (optional)	Pack Size
<b>A</b>	n/a	P32009.001E	CHN/CN/N Prepacked Combustion Tube, S13/24id/370mm, transparent silica tube <i>Sorry, we no longer manufacture this product due to Health and Safety implications.</i>			1 each
<b>B</b>	n/a	P32010.001E	CHN/CN/N Prepacked Combustion Tube, S13/24id/370mm, transparent silica tube, not Dangerous Goods for shipping purposes, equivalent to P32009.001E			1 each
<b>C</b>	n/a	P32011.001E	CHN/CN/N Prepacked Combustion Tube, S13/24id/370mm, transparent silica tube			1 each
<b>C</b>	n/a	P42009.001E	CHN/CN/N Prepacked Reduction Tube, S13/24id/370mm, transparent silica tube			1 each
<b>D</b>	n/a	P32012.001E	CHNS Prepacked Combustion Tube, S13/24id/370mm, transparent silica tube, with insert			1 each
<b>E</b>	n/a	P42012.001E	CHNS Prepacked Reduction Tube, S13/24id/370mm, transparent silica tube			1 each

### Picarro Prepacked Tubes



Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Picarro Prepacked Reaction Tubes	Picarro Part No.	Crucible Length (optional)	Pack Size
<b>A</b>	n/a	P17750.001E	Prepacked Reaction Tube, C+D, 18/25/450mm, transparent silica tube, use G37105.001E Ceramic Crucible	15823	70mm	1 each
<b>B</b>	n/a	P17760.001E	Prepacked Reaction Tube, CM, 18/25/450mm, transparent silica tube, use G37105.001E Ceramic Crucible	61134	70mm	1 each

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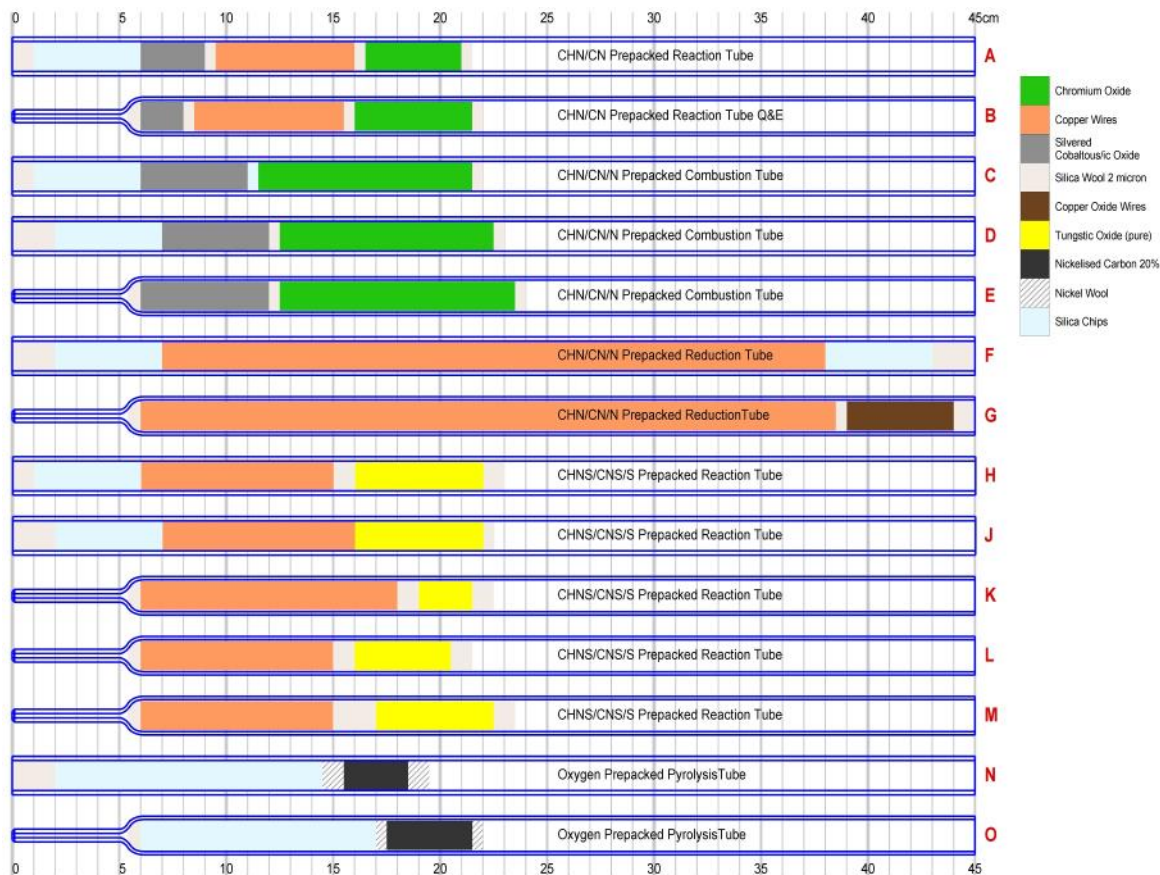


## Prepacked Reaction Tubes for Elemental Analysers



### Continued . . . Prepacked Reaction Tubes

#### Eurovector EA3000 Elemental Analyser Prepacked Tubes



Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Eurovector EA3000 Prepacked Reaction Tubes	Eurovec- tor Part No.	Crucible Length (optional)	Pack Size
A	P18001.001E	P18002.001E	CHN/CN Prepacked Reaction Tube, 18/18/450mm transparent silica tube	E13030	230mm	1 each
B	P18003.001E	P18004.001E	CHN/CN Prepacked Reaction Tube, 18/6/450mm transparent silica tube	E13041	225mm	1 each
C	P38011.001E	P38012.001E	CHN/CN/N Prepacked Combustion Tube, 18/18/450mm transparent silica tube	-	225mm	1 each
D	P38001.001E	P38002.001E	CHN/CN/N Prepacked Combustion Tube, 18/18/450mm transparent silica tube	E13005	215mm	1 each
E	P38003.001E	P38004.001E	CHN/CN/N Prepacked Combustion Tube, 18/6/450mm transparent silica tube	E13036	205mm	1 each
F	P48001.001E	P48002.001E	CHN/CN/N Prepacked Reduction Tube, 18/18/450mm transparent silica tube	E13010	n/a	1 each
G	P48003.001E	P48004.001E	CHN/CN/N Prepacked Reduction Tube, 18/6/450mm transparent silica tube	E13037	n/a	1 each
H	P28001.001E	P28002.001E	CHNS/CNS/S Prepacked Reaction Tube, 18/18/450mm transparent silica tube	E13001	215mm	1 each
J	P28011.001E	P28012.001E	CHNS/CNS/S Prepacked Reaction Tube, 18/18/450mm transparent silica tube	-	220mm	1 each
K	P28003.001E	P28004.001E	CHNS/CNS/S Prepacked Reaction Tube, 18/6/450mm transparent silica tube	E13040	220mm	1 each
L	P27003.001E	P27004.001E	CHNS/CNS/S Prepacked Reaction Tube, 18/6/450mm transparent silica tube	-	230mm	1 each
M	P28013.001E	P28014.001E	CHNS/CNS/S Prepacked Reaction Tube, 18/6/450mm transparent silica tube	-	210mm	1 each
N	P58001.001E	P58002.001E	Oxygen Prepacked Pyrolysis Tube, 18/18/450mm transparent silica tube	E13025	240mm	1 each
O	P58003.001E	P58004.001E	Oxygen Prepacked Pyrolysis Tube, 18/6/450mm transparent silica tube	E13043	225mm	

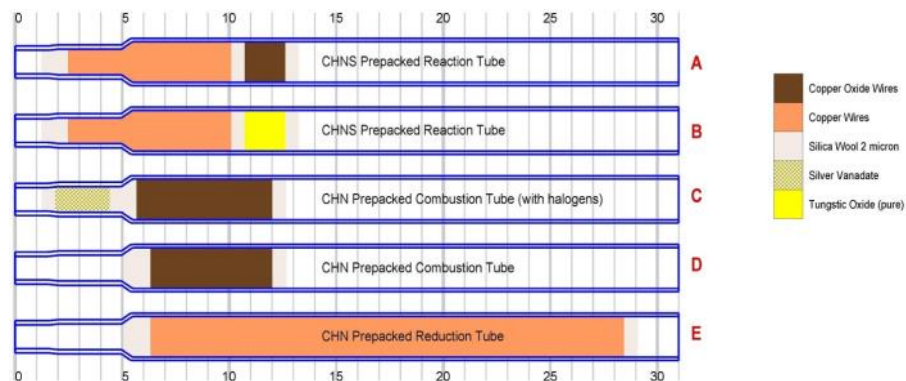
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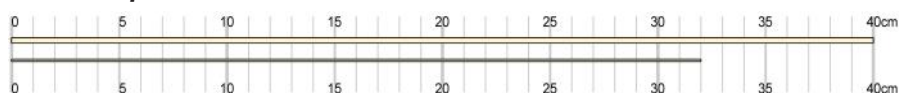
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### Leco 900 & 932 Elemental Analyser Prepacked Tubes



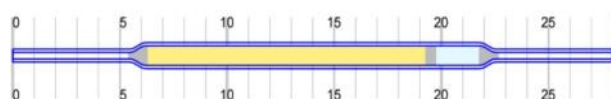
Ref	CatNo (Heavy Wall Tube)	CatNo (Standard Wall Tube)	Leco 900 & 932 Prepacked Reaction Tubes	Leco Part No.	Pack Size
<b>A</b>	n/a	P20980.001E	CHNS Prepacked Reaction Tube, 11.2id/22/310mm transparent silica tube		1 each
<b>B</b>	n/a	P20989.001E	CHNS Prepacked Reaction Tube, 11.2id/22/310mm transparent silica tube		1 each
<b>C</b>	n/a	P30980.001E	CHN Prepacked Combustion Tube, with halogens, 11.2id/22/310mm transparent silica tube		1 each
<b>D</b>	n/a	P30989.001E	CHN Prepacked Combustion Tube, no halogens, 11.2id/22/310mm transparent silica tube		1 each
<b>E</b>	n/a	P40980.001E	CHN Prepacked Reduction Tube, 11.2id/22/310mm transparent silica tube		1 each

### GC-C Prepacked Tubes



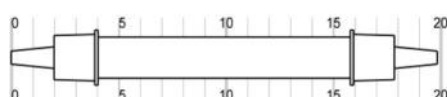
CatNo	Thermo GC-C Prepacked Reaction Tubes	Part No.	Pack
P91250.001E	Prepacked Oxidation Tube, GC-C, 3.0mm OD x 0.5mm ID x 400mm L ceramic tube nickel lined, central Pt/Cu/Ni wires 380mm long		1 each
P91200.001E	Prepacked Oxidation Tube, GC-C, 1.5mm OD x 0.5mm ID x 320mm L ceramic tube, central Pt/Cu/Ni wires 240mm long	104 0920	1 each
P91300.001E	Prepacked Reduction Tube, GC-C, 1.5mm OD x 0.5mm ID x 320mm L ceramic tube, central Cu/Cu/Cu wires 240mm long	104 0820	1 each

### Thermo GasBench II Denitrification Kit Prepacked Tube



CatNo	Thermo GasBench II Prepacked Tube	Thermo PartNo	Pack
P60100.001E	Prepacked Denitrification Trap, Thermo GasBench II		1 each

### Shimadzu TOC V, L, 5000 & 4100 Series Prepacked Tube



CatNo	Shimadzu TOC Prepacked Tube	Shimadzu PartNo	Pack
P91500.001E	Halogen Scrubber Prepacked Tube, Shimadzu TOC	630-00992	1 each





## Autosampler Parts & Servicing

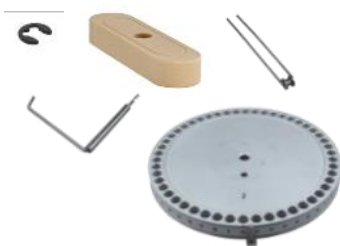


### Autosampler Parts & Servicing

#### Thermo / CE Instruments / Carlo Erba AS200 Autosampler Parts



Full 'back to base' service and loan unit available for this autosampler. Please enquire.



CatNo	Pack	Description	OEM PartNo
E21410.001E	1 each	Sample Slider, Fluoroloy	370 01101
E21320.001E	1 each	Ratchet Spring, L shaped, complete with 5mm diameter strengthening tube, 2mm diameter spring wire, profiled for ratchet cog engagement	217 06005
E21321.001E	1 each	Ratchet Spring, early version, L shaped, complete with 5mm diameter strengthening tube, 1.5mm diameter spring wire	-
E21322.001E	1 each	Ratchet Spring, earliest version, L shaped, complete with 3mm diameter strengthening tube, 1.5mm diameter spring wire	-
E21327.001E	1 each	Tray Positioning Spring, with small wheel	315 02310
E21313.001E	1 each	Sampler Cover, dome shaped	241 04329
E21329.001E	1 each	Knurled screw for Sampler Cover, M4 x 15mm	311 00361
E21312.001E	1 each	Sample Tray Cover, flat	241 04328
E21731.001E	1 each	Purge Valve, slide actuation, M5 female ports, fitted to NA1500 series 1 autosampler purge line	405 23005
E21415.001E	1 each	Pneumatic Actuator Seal Kit	190 04200
E21370.001E	1 each	Sample Tray, No 1, (subject to availability)	272 05001
E21371.001E	1 each	Sample Tray, No 2, (subject to availability)	272 05002
E21372.001E	1 each	Sample Tray, No 3, (subject to availability)	272 05003
E21373.001E	1 each	Sample Tray, No 4, (subject to availability)	272 05004
E21331.001E	1 each	Manifold Tube, connection to combustion tube	347 09507
E21701.001E	1 each	O Ring, for manifold tube	290 00015
E21752.001E	1 each	Manifold Nut, 1 inch	350 01427
E21803.001E	1 each	Carrier Gas Inlet Tube	347 05435
E21735.001E	1 each	Carrier Inlet Tube Nut, 1/2 inch	350 01421
E21610.010P	10 pack	O Ring, carrier gas inlet tube connection	290 30567
E21836.010P	10 pack	Circlip E Type, link pin	-

#### Thermo / CE Instruments MAS200R & MAS200R Plus Autosampler Parts



Full 'back to base' service available for this autosampler. We can also replace seals on your autosampler piston shafts. Please enquire.



CatNo	Pack	Description	OEM PartNo
E21781.001E	1 each	Autosampler Piston Shaft, complete with seals	343 01512
M90100.001E	1 each	Piston Seal Replacement Tool, MAS200R	-
E21630.003P	3 pack	Seals, for MAS200R autosampler, ultrathin	290 02195
E21780.001E	1 each	Autosampler Front Cover, with mirror	241 05535
E21330.001E	1 kit	Knurled Screw Kit for Sampler Cover, set of 3	190 04257
E21314.001E	1 each	Sample Tray Cover, flat	241 04477
E21340.001E	1 each	Loading Spring	315 05211
E21341.001E	1 each	Positioning Spring	315 05212
E21378.001E	1 each	Sample Tray, No 1	240 10135
E21379.001E	1 each	Sample Tray, No 2	240 10136
E21380.001E	1 each	Sample Tray, No 3	240 10137
E21381.001E	1 each	Sample Tray, No 4	240 10138
E21704.010P	10 pack	O Ring, window	290 30014
E21342.001E	1 each	Window, plastic	301 08020
E21343.001E	1 each	Geared Motor, without lead, cog or mounting plate	-
E21346.001E	1 each	Geared Motor Assembly, complete with lead, cog & mounting plate	318 07628
E21344.001E	1 each	Toothed Ratchet Wheel	358 00626
M43010.001E	1 each	Silicone Grease, 1/2 ounce	-



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## Continued . . . Autosampler Parts & Servicing

### Thermo / CE Instruments AS128 Autosampler Parts

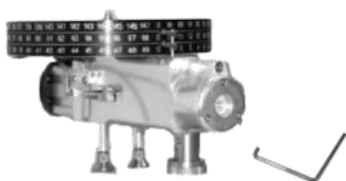


Full 'back to base' service and loan unit available for this autosampler. Please enquire.



CatNo	Pack	Description	OEM PartNo
E21338.001E	1 each	<b>Cone Maintenance Kit</b> , consists of Fluoroloy Cone, Cone O Ring, Mirror, Cylindrical Lens, 4 x Pins	190 04157
E21339.001E	1 each	<b>Chamber Maintenance</b> , consists of Loading Chamber, Manifold Tube O Ring, Fluoroloy Cone, Cone O Ring, Mirror, Cylindrical Lens, 4 x Pins	190 04158
E21328.001E	1 each	<b>Tray Positioning Spring</b> , with small wheel	315 05400
E21311.001E	1 each	<b>Sampler Cover</b> , dome shaped	241 04427
E21329.001E	1 each	<b>Knurled screw for Sampler Cover</b> , M4 x 15mm	311 00361
E21310.001E	1 each	<b>Sample Tray Cover</b> , flat	241 05529
E21326.001E	1 each	<b>Tray Ratchet Drive Mechanism</b> , new type	212 10021
E21325.001E	1 each	<b>Tray Ratchet Drive Mechanism</b> , old type	212 10020
E21333.001E	1 each	<b>Ratchet Cog Wheel</b>	358 00620
E21334.001E	1 each	<b>Front Window</b> , clear acrylic plastic	310 08010
E21702.001E	1 each	<b>O Ring</b> , for front window	290 00023
E21335.001E	1 each	<b>Tool</b> , for removal of front window	205 01315
E21631.001E	1 each	<b>Upper Seal</b> , PTFE, seals chamber to tray for efficient purge	290 03195
E21336.001E	1 each	<b>Thrust Roller Bearing</b>	
E21337.001E	1 each	<b>Pneumatic Actuator</b>	190 04159
E21374.001E	1 each	<b>Sample Tray</b> , No 1, (subject to availability)	
E21375.001E	1 each	<b>Sample Tray</b> , No 2, (subject to availability)	
E21376.001E	1 each	<b>Sample Tray</b> , No 3, (subject to availability)	
E21377.001E	1 each	<b>Sample Tray</b> , No 4, (subject to availability)	
E21332.001E	1 each	<b>Manifold Tube</b> , connection to combustion tube	350 23009
E21703.001E	1 each	<b>O Ring</b> , for manifold tube	290 00017
E21752.001E	1 each	<b>Manifold Nut</b> , 1 inch	350 01427
E21803.001E	1 each	<b>Carrier Gas Inlet Tube</b>	347 05435
E21735.001E	1 each	<b>Carrier Inlet Tube Nut</b> , 1/2 inch	350 01421
E21610.010P	10 pack	<b>O Ring</b> , carrier gas inlet tube connection	290 30567
E21645.001E	1 each	<b>O Ring</b> , cone seal	

### Costech PN150 Autosampler Parts



CatNo	Pack	Description	OEM PartNo
E21323.001E	1 each	<b>Ratchet Spring</b> , L shaped, 3.2mm diameter spring wire, profiled for ratchet cog engagement	
E21699.003P	3 pack	<b>O Ring</b> , fluoroelastomer, for autosampler piston	
E21700.001E	1 each	<b>O Ring</b> , silicone, for autosampler manifold connection tube	
E21704.010P	10 pack	<b>O Ring</b> , window	
M43010.001E	1 each	<b>Silicone Grease</b> , 1/2 ounce	

### Costech Zero Blank Autosampler Parts



CatNo	Pack	Description	OEM PartNo
E21641.002P	2 pack	<b>O Ring</b> , viton, for isolation valve ends	
E21642.001E	1 each	<b>O Ring</b> , viton, for isolation middle recess	
E21643.001E	1 each	<b>O Ring</b> , Viton, for autosampler manifold connections, top and bottom	
E21644.001E	1 each	<b>O Ring</b> , viton, for zero blank autosampler lid	
M43010.001E	1 each	<b>Silicone Grease</b> , 1/2 ounce	

### Sercon Autosampler Parts



CatNo	Pack	Description	OEM PartNo
E21698.003P	3 pack	<b>O Ring</b> , viton, for autosampler cylinder (3 seals on outside of cylinder)	
E21697.002P	2 pack	<b>O Ring</b> , Viton, for autosampler piston, (1 internal on cylinder & 1 on mount end of piston)	



## Liquid Autosampler Consumables & Parts



### Liquid Autosampler Consumables and Parts



OEA Labs Part No.	Pack Size	Description	OEM PartNo
M32120.001E	1 each	Syringe, 5 microlitre, Hamilton, 75RN, 87930, replaceable needle	365 04020
M32125.001E	1 each	Syringe, 10 microlitre, Hamilton, 701RN, 80330, replaceable needle	365 04025
M32130.001E	1 each	Syringe, 25 microlitre, Hamilton, 702RN, 80430, replaceable needle	-
M32135.001E	1 each	Syringe, 50 microlitre, Hamilton, 705RN, 80530, replaceable needle	365 04005
M32140.001E	1 each	Syringe, 100 microlitre, Hamilton, 710RN, 80630, replaceable needle	365 04010
M32145.001E	1 each	Syringe, 250 microlitre, Hamilton, 725RN, 80730, replaceable needle	365 04015
M32150.001E	1 each	Syringe, 500 microlitre, Hamilton, 750RN, 80830, replaceable needle	365 04035
M32310.006P	6 pack	Replaceable Needles, Blunt Tip, 25s ga, 50mm, 8647-01, 5 to 100ul, recommended (traditional bevel tips can eject sample onto the wall of the reaction tube)	-
M32320.006P	6 pack	Replaceable Needles, Blunt Tip, 25s ga, 50mm, 8648-01, 250 to 500ul, recommended (traditional bevel tips can eject sample onto the wall of the reaction tube)	-
M32410.100P	100 pack	Vials, 2 ml, Liquid Autosampler, 12x32mm, 8mm screw top, 2-SV, without caps & septa, use with M32475.100P spacers on AS800 and AS2000	240 74042
M32415.100P	100 pack	Screw Caps, 8mm, black, 8-SC, for M32410.100P vials	386 06074
M32420.100P	100 pack	Septa, 8mm, 8-ST15, PTFE faced silicone rubber, for M32410.100P vials	313 03217
M32430.100P	100 pack	Vials, 2ml, Liquid Autosampler, 12x32mm, 2-SVW, 9mm screw top, use with M32475.100P spacers on AS800 and AS2000	240 14019
M32435.100P	100 pack	* Replaced by M32442.100P *, Screw Caps, 9mm, 9-SC, for M32430.100P vials	386 06085
M32440.100P	100 pack	* Replaced by M32442.100P *, Septa, 9mm, 9-ST15, PTFE faced silicone rubber, for M32430.100P vials	313 03218
M32442.100P	100 pack	Screw Caps & Septa, 9mm, 9-SC(BLK)-BST1, with PTFE faced silicone rubber seals, for M32430.100P vials	386 06085 313 03218
M32455.100P	100 pack	Vials, 2ml, Liquid Autosampler, 12x32mm, 11mm crimp top, 2-CV, use with M32475.100P spacers on AS800 and AS2000	-
M32460.100P	100 pack	Aluminium Crimp Cap, 11mm crimp, 11-AC-ST15, with PTFE faced silicone rubber septa, for M32455.100P vials	-
M32475.100P	100 pack	Spacer/Adapter, 11.5mm OD x 9mm high, for 2ml vials, for use with 12x32 vials on AS800 and AS2000	350 01501
M32480.005P	5 pack	Wash Vials & Caps, AI/AS3000 Liquid Autosampler, 15x46mm, 4-SVQ, 4ml	240 14032
M32485.005P	5 pack	Wash Vials, screw top, AS800 & AS2000 Liquid Autosampler, 22x45mm, 10ml, 10-HSV+18 -MSC-ST3 stainless steel screw caps and silicone/ptfe septa included	240 30000
M32490.005P	5 pack	Wash Vials, crimp top, AS800 & AS2000 Liquid Autosampler, 22x45mm, 10ml, 10-CV+20-AC-CBT3, 20mm crimp caps and PTFE faced chlorobutyl rubber septa included	240 30000
M32495.005P	5 pack	Aluminium Crimp Cap & Septum, AS800 & AS2000 Liquid Autosampler, 20mm, 20-AC-CBT3, complete with PTFE faced chlorobutyl rubber septa, for M32490.005P wash vials	386 06035
M32510.001E	1 each	Crimping Tool, 11mm	205 11000
M32520.001E	1 each	Crimping Tool, 20mm	205 00700
M32610.050P	50 pack	Injection Septa, 11mm, silicone rubber, BTO, bleed temperature optimised	313 03230
M32620.050P	50 pack	Injection Septa, 11mm, Thermogreen, ultra low bleed, recommended	-
E21747.001E	1 each	Injection Head, for liquid autosamplers or manual injection of liquids/gases into an elemental analyser, stainless steel / aluminium cooling fin	190 04138
E21752.001E	1 each	Manifold Nut, 1 inch, stainless steel	350 01427
E21803.001E	1 each	Carrier Gas Inlet Tube, stainless steel	347 05435
E21735.001E	1 each	Knurled Retaining Nut, 1/2", stainless steel	350 01421
M32500.001E	1 each	Waste Container, AS800 & AS2000 Liquid Autosampler, with screw cap and septum	190 04646
M32505.001E	1 each	Waste Container, AI/AS3000 Liquid Autosampler, with 5 screw caps and septa	240 12416
<i>We can supply other syringes, vials and accessories. Please enquire.</i>			



## Furnace Repairs and Parts



### Thermo EA1108, NA1500/2, NA2000, EA1110, NA2500 & NA2100

CatNo	Pack	Description	OEM
E21211.001E	1 each	* Replaced by E21215.001E *, <b>Furnace Core</b> , exchange unit, supply only	354 50010
E21215.001E	1 each	<b>Furnace Core</b> , new unit, supply only	354 50010
E21213.001E	1 each	<b>Furnace Repair</b> , Dual Furnace, one furnace core replacement & rebuild, thermocouples not supplied	-
E21214.001E	1 each	<b>Furnace Repair</b> , Dual Furnace, two furnace cores replacement & rebuild, thermocouples not supplied	-
E21216.001E	1 each	<b>Rebuilt Dual Furnace</b> , rebuilt unit with new cores, thermocouples not supplied, subject to availability	354 60015
E21217.001E	1 each	<b>Exchange Rebuilt Dual Furnace</b> , rebuilt unit with new cores, thermocouples not supplied	-
E21218.001E	1 each	<b>Dual Furnace</b> , new unit, thermocouples not supplied, subject to availability	354 60015
E21220.001E	1 each	<b>Thermocouple</b> , Pt/Pt-Rh	403 20000



### Thermo NA1500 Series 1

CatNo	Pack	Description	OEM
E21211.001E	1 each	* Replaced by E21215.001E *, <b>Furnace Core</b> , exchange unit, supply only	354 50010
E21215.001E	1 each	<b>Furnace Core</b> , new unit, supply only	354 50010
E21212.001E	1 each	<b>Furnace Repair</b> , one furnace core replacement & rebuild, thermocouple not supplied	-
E21231.001E	1 each	<b>Rebuilt Furnace</b> , rebuilt unit with new core, thermocouple not supplied, subject to availability	-
E21232.001E	1 each	<b>Exchange Rebuilt Furnace</b> , rebuilt unit with new cores, thermocouples not supplied	354 60015
E21220.001E	1 each	<b>Thermocouple</b> , Pt/Pt-Rh	403 20000



### Thermo Flash EA & Flash HT

CatNo	Pack	Description	OEM
E21233.001E	1 each	<b>Furnace</b> , new, without thermocouple, Flash EA	354 60021
E21221.001E	1 each	<b>Thermocouple</b> , Pt/Pt-Rh, Flash EA	403 20005
E21226.001E	1 each	<b>Thermocouple</b> , Pt/Pt-Rh, Flash HT & Flash HT Plus	403 20006



### Thermo TC/EA

CatNo	Pack	Description	OEM
E21241.001E	1 each	<b>High Temperature Heating Element</b> , Silicon Carbide, 300mmL, 29mmOD, 20mmID, ~70V@26Amps	354 29300

### Costech ECS4010

CatNo	Pack	Description	OEM
E21234.001E	1 each	<b>Furnace Core</b> , new unit, supply only	
E21235.001E	1 each	<b>Furnace Repair</b> , one furnace core replacement & rebuild, thermocouple not supplied	-
E21242.001E	1 each	<b>Furnace Repair</b> , two furnace cores replacement & rebuild, thermocouples not supplied	
E21236.001E	1 each	<b>Furnace</b> , new, with thermocouples, subject to availability	
E21219.001E	1 each	<b>Thermocouple</b> , 250mm x 1.5mm, with connector plug	
E21225.001E	1 each	<b>Thermocouple</b> , 240mm x 3.0mm, with connector plug	
E51010.002P	2 pack	<b>Top Insulating Collars</b> , high quality machined ceramic, ECS4010	102013312
E51020.002P	2 pack	<b>Bottom Insulating Collars</b> , high quality machined ceramic, ECS4010	102013313



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### Continued . . . Furnace Repairs and Parts



#### **Eurovector EA3000**

CatNo	Pack	Description	OEM
E21237.001E	1 each	<b>Furnace Core</b> , new unit, supply only	
E21238.001E	1 each	<b>Furnace Repair</b> , Single Furnace, core replacement & rebuild, thermocouple not supplied	-
E21222.001E	1 each	<b>Thermocouple</b> , Pt/Pt-Rh, with connector plug	



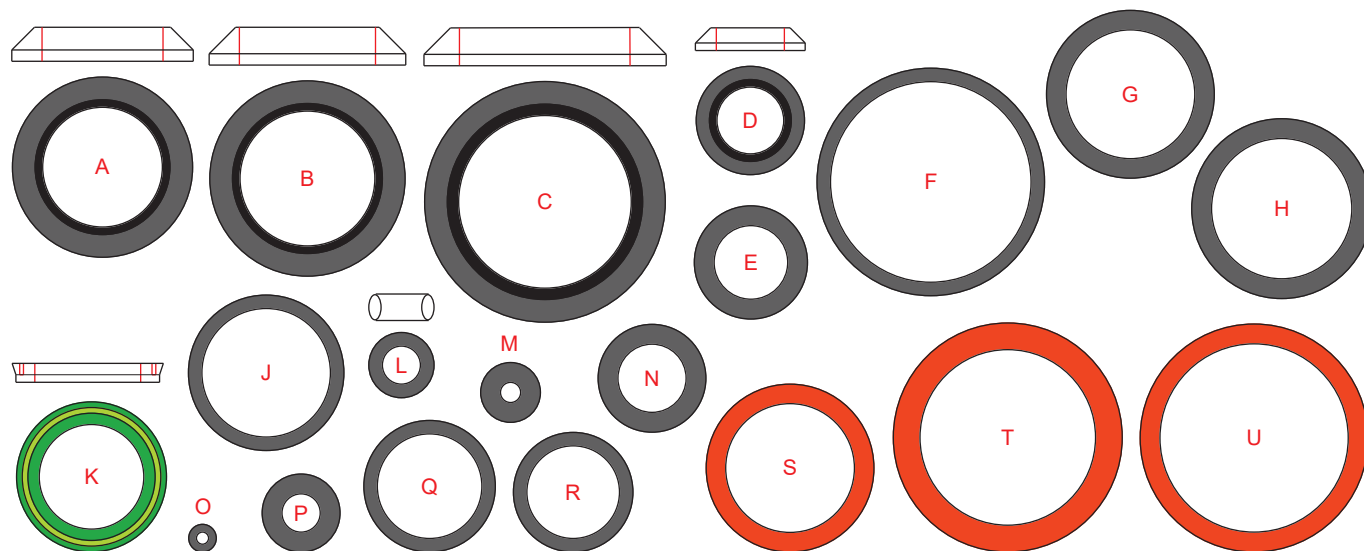
#### **Sercon / Europa ANCA SL, ANCA GSL, Roboprep, Integra & Sercon EA**

CatNo	Pack	Description	OEM
E21239.001E	1 each	<b>Furnace Core</b> , new unit, supply only	
E21240.001E	1 each	<b>Furnace Repair</b> , one furnace core replacement & rebuild, thermocouple not supplied	-
E21223.001E	1 each	<b>Thermocouple, Stainless Steel</b> , 175 x 3mm, without connector pug	SC0031
E21224.001E	1 each	<b>Thermocouple, Inconel</b> , 175 x 3mm, without connector pug	SC0031
E21227.001E	1 each	<b>Thermocouple, Stainless Steel</b> , 175 x 1.5mm, without connector pug	SC0030



## Seals and 'O' Rings

### Thermo / CE Instruments / Carlo Erba Elemental Analyser Seals & 'O' Rings



Ref	OEALabs Part No.	Pack Size	Description	Thermo Part No.	Flash EA1112 EA2000	EA1110 NA2500 NA2100	NA2000 EA1108 NA1500/2	NA1500/1	EA1106
<b>A</b>	E21605.005P E21605.010P	5 pack 10 pack	Seal, Viton, Profiled, for upper (and lower) 18mm diameter reaction tubes	290 32910 112 1120	✓	✓	✓	x	x
<b>B</b>	E21606.005P	5 pack	Seal, Viton, Profiled, for upper 19.5mm diameter reaction tubes	290 30042	x	x	x	✓	x
<b>C</b>	E21607.005P	5 pack	Seal, Viton, Profiled, for upper 25mm diameter reaction tubes	-	✓	x	x	x	x
<b>D</b>	E21604.005P	5 pack	Seal, Viton, Profiled, for upper 10mm diameter reaction tube,	290 50306	x	x	x	x	✓
<b>E</b>	E21654.010P	10 pack	O Ring, Nitrile, for upper 10mm diameter combustion tube and plain scrubbing tubes, design changed to seal E21604.005P	290 50306	x	x	x	x	✓
<b>F</b>	E21702.001E	1 each	O Ring, Viton, for front window, AS128 autosampler	290 00023	x	✓	✓	✓	x
<b>G</b>	E21655.010P	10 pack	O Ring, Viton, for upper and lower 18mm diameter reaction tubes, design changed to seal part no. E21605.005P	290 22910	✓	✓	✓	x	x
<b>H</b>	E21656.010P	10 pack	O Ring, Viton, for upper 20mm diameter reaction tubes, design changed to seal part no. E21606.005P	290 30342	x	x	x	✓	x
<b>J</b>	E21703.001E	1 each	O Ring, Viton, for manifold tube, AS128 autosampler	290 00017	x	✓	✓	✓	x
<b>K</b>	E21630.003P	3 pack	Seals, Ultrathane, MAS200 autosampler piston	290 02195	✓	x	x	x	x
<b>L</b>	E21610.010P	10 pack	Seal, Viton, Oval Profile, for lower reaction or oxygen pyrolysis tube	290 30567	x	Oxygen Tube	Oxygen Tube	✓	✓
<b>M</b>	E21651.010P	10 pack	O Ring, Nitrile, for carrier gas connections	290 50304	✓	✓	✓	✓	✓
<b>N</b>	E21653.010P	10 pack	O Ring, Viton, for stainless steel or silica reduction tube	290 30331	x	x	x	x	✓
<b>O</b>	E21650.010P	10 pack	O Ring, Nitrile, for air tubing	290 30301	✓	✓	✓	✓	✓
<b>P</b>	E21652.010P	10 pack	O Ring, Viton, for lower reaction or oxygen pyrolysis tube, design changed to seal part no. E21610.010P	290 50567	x	Oxygen Tube	Oxygen Tube	✓	✓
<b>Q</b>	E21701.001E	1 each	O Ring, Viton, for manifold tube, AS200 autosampler	290 00015	x	✓	✓	✓	x
<b>R</b>	E21704.010P	10 pack	O Ring, Viton, window, MAS200R autosampler	290 30014	✓	x	x	x	x
<b>S</b>	E21660.004P E21660.010P	4 pack 10 pack	O Ring, Silicone, for lower 18mm reaction tube fitting	290 20640	✓	x	x	x	x
<b>T</b>	E21662.004P E21662.010P	4 pack 10 pack	O Ring, Silicone, for upper 25mm reaction tube	290 20649	✓	x	x	x	x
<b>U</b>	E21661.010P	10 pack	O Ring, Silicone, for lower 25mm reaction tube fitting	290 20682	✓	x	x	x	x
	E21645.001E	1 each	O Ring, Viton, for AS128 Cone Seal	-	x	✓	✓	x	x

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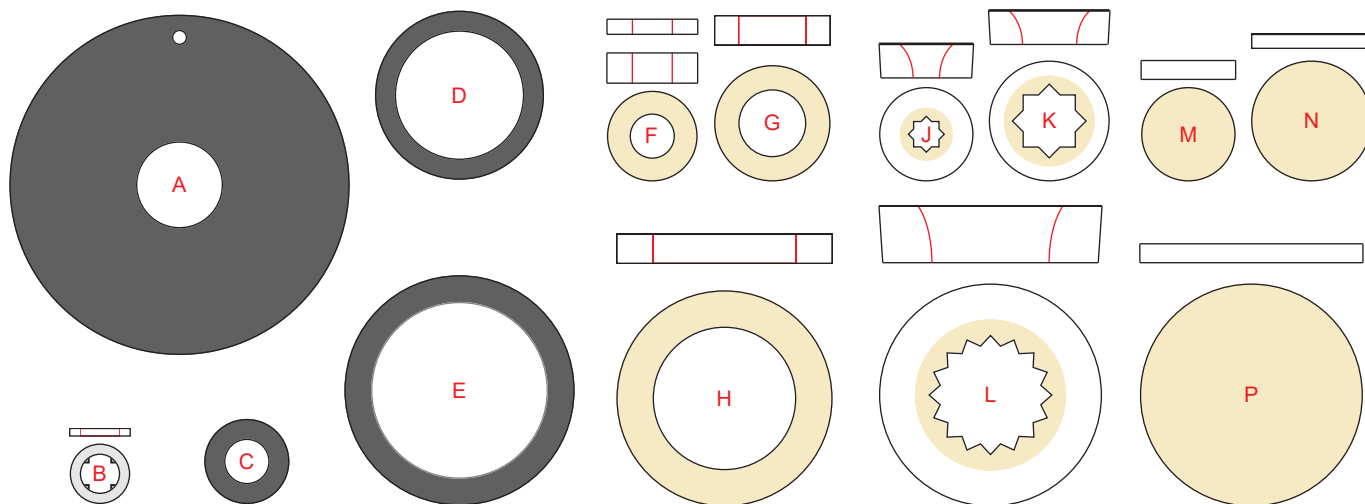


## Seals, O Rings & Filters for Elemental Analysers



### Continued . . . Seals and 'O' Rings

#### Continued . . . Thermo / CE Instruments / Carlo Erba Elemental Analyser Seals & 'O' Rings



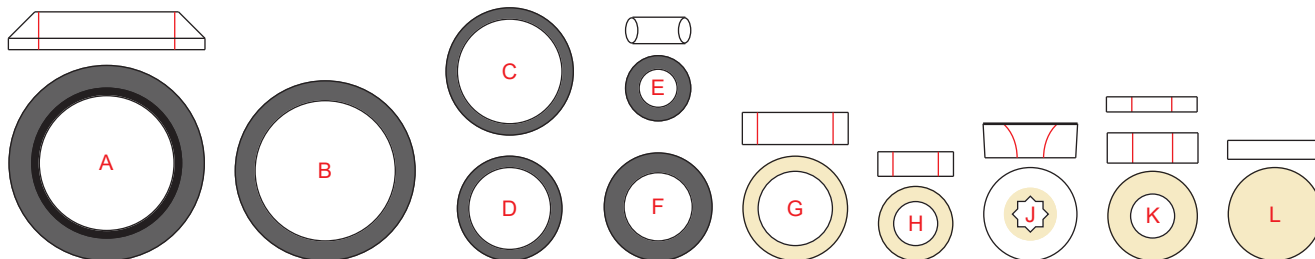
Ref	OEA Labs Part No.	Pack Size	Description	Thermo Part No.	Flash EA1112 EA2000	EA1110 NA2500 NA2100	NA2000 EA1108 NA1500/2	NA1500/1	EA1106
<b>A</b>	E21640.001E	1 each	Diaphragm, Viton, Bimatic Valve, 0.25mm thick	313 02100	x	x	✓	✓	✓
<b>A</b>	E21639.001E	1 each	Diaphragm, Viton, Bimatic Valve, 0.38mm thick	313 02100	x	x	✓	✓	✓
<b>B</b>	E21633.010P	10 pack	Seal/Gasket, for M5 autosampler ports and fast connect connections to scrubbing tubes	-	✓	✓	✓	✓	✓
<b>C</b>	E21682.005P	5 pack	O Ring, Viton, for 11mm Quick 'n' Easy connections	-	✓	✓	✓	✓	x
<b>D</b>	E21683.005P	5 pack	O Ring, Viton, for 22mm Quick 'n' Easy connections	-	✓	✓	✓	✓	✓
<b>E</b>	E21663.002P	2 pack	O Ring, Viton, for large threaded acrylic scrubbing tubes	290 10082	✓	✓	✓	✓	x
<b>F</b>	E21614.002P	2 pack	Seal, Silicone, GL14, half thickness, threaded scrubbing tubes	-					
	E21617.002P	2 pack	Seal, Silicone, GL14, standard thickness, threaded scrubbing tubes	290 03635	✓	✓	✓	✓	✓
	E21612.002P	2 pack	Seal, Viton, GL14, half thickness, threaded scrubbing tubes	-					
	E21613.002P	2 pack	Seal, Viton, GL14, standard thickness, threaded scrubbing tubes	-					
<b>G</b>	E21618.002P	2 pack	Seal, Silicone, GL18 thread, for GL18 scrubbing tubes	-	✓	✓	✓	✓	✓
<b>H</b>	E21619.002P	2 pack	Seal, Silicone, GL32 thread, for GL32 scrubbing tubes	-	✓	✓	✓	✓	x
<b>J</b>	E21615.002P	2 pack	Seal, PTFE faced Silicone GL14 thread, for GL14 scrubbing tubes	290 13603	✓	✓	✓	✓	✓
<b>K</b>	E21622.002P	2 pack	Seal, PTFE faced Silicone GL18 thread, for GL18 scrubbing tubes	-	✓	✓	✓	✓	✓
<b>L</b>	E21620.002P	2 pack	Seal, PTFE faced Silicone GL32 thread, for GL32 scrubbing tubes	-	✓	✓	✓	✓	x
<b>M</b>	E21616.002P	2 pack	Seal, Silicone, GL14, for sealing off GL14 scrubbing tubes when not in use	-	✓	✓	✓	✓	✓
<b>N</b>	E21623.002P	2 pack	Seal, Silicone, GL18, for sealing off GL18 scrubbing tubes when not in use	-	✓	✓	✓	✓	✓
<b>P</b>	E21621.002	2 pack	Seal, Silicone, GL32, for sealing off GL32 scrubbing tubes when not in use	-	✓	✓	✓	✓	x
-	E21657.010P	10 pack	O Ring, Nitrile, for 23 seat autosampler lid (not shown)	290 05046	x	x	x	x	✓

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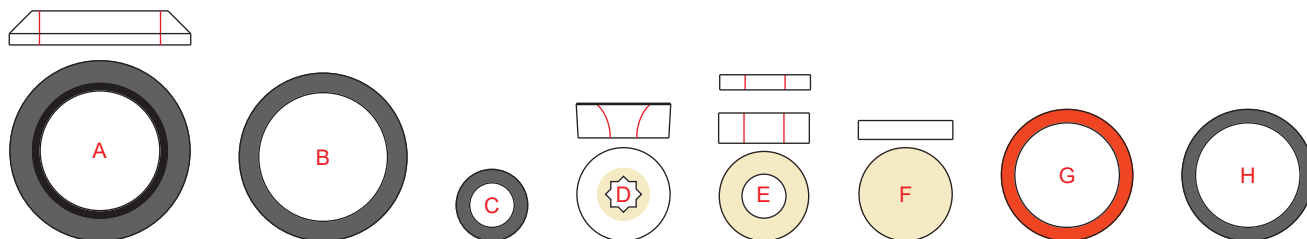
## Continued . . . Seals and 'O' Rings

### Sercon ANCA, Roboprep & Integra Seals & 'O' Rings



Ref	OEA Labs Part No.	Pack Size	Description	Sercon PartNo
<b>A</b>	E21606.005P	5 pack	Seal, Viton, Profiled, for upper 19.5mm diameter reaction tubes	SC1421
<b>B</b>	E21656.010P	10 pack	O Ring, Viton, for upper 19.5mm diameter reaction tubes, design changed to seal part no. E21606.005P	SC1395
<b>C</b>	E21698.003P	3 pack	O Ring, Viton, for autosampler cylinder (3 seals - outside fitting on cylinder)	-
<b>D</b>	E21697.002P	2 pack	O Ring, Viton, for autosampler piston (1 internal on cylinder & 1 on mount end of piston)	-
<b>E</b>	E21610.010P	10 pack	Seal, Viton, Oval Profile, for 6mm ends of combustion and reduction tubes	-
<b>F</b>	E21653.010P	10 pack	O Ring, Viton, for 10mm end of Roboprep reduction tube	-
<b>G</b>	E21626.005P	5 pack	Seal, Silicone, for scrubbing tube ball connections and 10mm end of Roboprep reduction tube	SC0046
<b>H</b>	E21625.005P	5 pack	Seal, Silicone, for 6mm ends of combustion and reduction tubes	SC0047
<b>J</b>	E21615.002P	2 pack	Seal, PTFE faced Silicone, GL14 for GL14 threaded scrubbing tubes	SC1410
<b>K</b>	E21614.002P	2 pack	Seal, Silicone, GL14, half thickness, threaded scrubbing tubes	-
	E21617.002P	2 pack	Seal, Silicone, GL14, standard thickness, threaded scrubbing tubes	
	E21612.002P	2 pack	Seal, Viton, GL14, half thickness, threaded scrubbing tubes	
	E21613.002P	2 pack	Seal, Viton, GL14, standard thickness, threaded scrubbing tubes	
<b>L</b>	E21616.002P	2 pack	Seal, Silicone, GL14, for sealing off GL14 threaded scrubbing tubes when not in use	-

### Eurovector EA3000 Elemental Analyser Seals & 'O' Rings



Ref	OEA Labs Part No.	Pack Size	Description	Eurovector PartNo
<b>A</b>	E21605.005P E21605.010P	5 pack 10 pack	Seal, Viton, Profiled, for upper (and lower) 18mm diameter reaction tubes	E13530
<b>B</b>	E21655.010P	10 pack	O Ring, Viton, for upper and lower 18mm diameter reaction tubes, design changed to seal part no. E21605.005P	-
<b>C</b>	E21664.001E	1 pack	O Ring, Viton, for 6mm Q-Fit	E13540
<b>D</b>	E21615.002P	2 pack	Seal, PTFE faced Silicone GL14, for GL14 threaded scrubbing tubes	-
<b>E</b>	E21614.002P	2 pack	Seal, Silicone, GL14, half thickness, threaded scrubbing tubes	-
	E21617.002P	2 pack	Seal, Silicone, GL14, standard thickness, threaded scrubbing tubes	
	E21612.002P	2 pack	Seal, Viton, GL14, half thickness, threaded scrubbing tubes	
	E21613.002P	2 pack	Seal, Viton, GL14, standard thickness, threaded scrubbing tubes	
<b>F</b>	E21616.002P	2 pack	Seal, Silicone, GL14, for sealing off GL14 threaded scrubbing tubes when not in use	-
<b>G</b>	E21700.001E	1 each	O Ring, Silicone, holder & injector	E213537
<b>H</b>	E21701.001E	1 each	O Ring, Viton, holder & injector	E213537

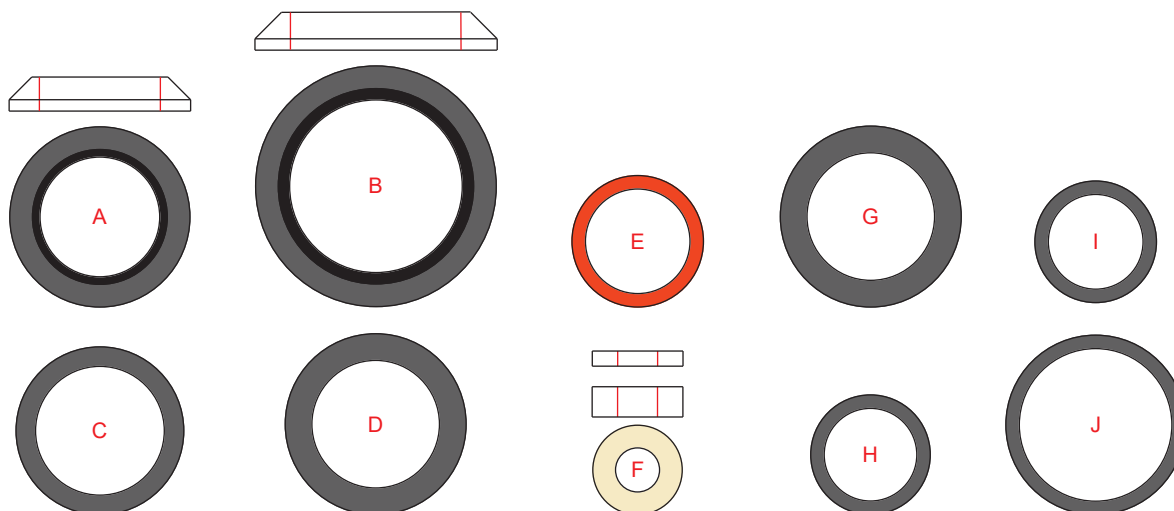
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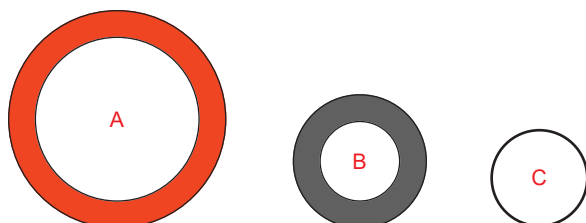
## Continued . . . Seals and 'O' Rings

### Costech ECS4010 Elemental Analyser Seals & 'O' Rings



Ref	OEA Labs Part No.	Pack Size	Description	Costech PartNo
A	E21605.005P E21605.010P	5 pack 10 pack	Seal, Viton, Profiled, for upper (and lower) 18mm diameter reaction tubes	061112
B	E21607.005P	5 pack	Seal, Viton, Profiled, for upper 25mm diameter reaction tubes	061136
C	E21655.010P	10 pack	O Ring, Viton, for upper and lower 18mm diameter reaction tubes, designed changed to seal part no. E21605.005P	-
D	E21699.003P	3 pack	O Ring, Fluoroelastomer, for PN150 autosampler piston	-
E	E21700.001E	1 each	O Ring, Silicone, for autosampler delivery/carrier connection stem	-
F	E21614.002P E21617.002P E21612.002P E21613.002P	2 pack 2 pack 2 pack 2 pack	Seal, Silicone, GL14, half thickness, threaded scrubbing tubes Seal, Silicone, GL14, standard thickness, threaded scrubbing tubes Seal, Viton, GL14, half thickness, threaded scrubbing tubes Seal, Viton, GL14, standard thickness, threaded scrubbing tubes	- 071122 -
G	E21641.002P	2 pack	O Ring, viton, for zero blank autosampler isolation valve ends	
H	E21704.010P	10 pack	O Ring, viton, window	
I	E21642.001E	1 each	O Ring, viton, for for zero blank autosampler isolation valve middle recess	
J	E21643.001E	1 each	O Ring, Viton, for for zero blank autosampler isolation valve manifold connections, top and bottom	
-	E21644.001E	1 each	O Ring, viton, for zero blank autosampler lid, (not shown)	

### Perkin Elmer PE2400 Elemental Analyser Seals & 'O' Rings



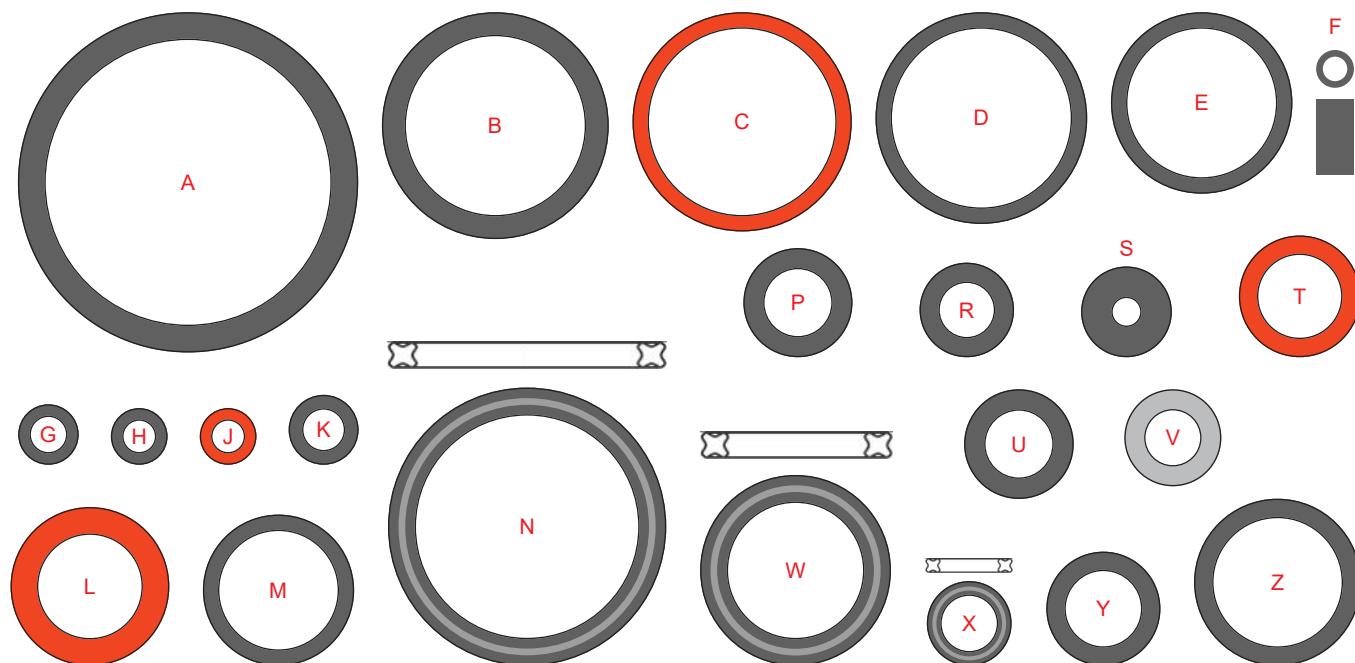
Ref	OEA Labs Part No.	Pack Size	Description	Perkin Elmer PartNo
A	E21666.010P	10 pack	O Ring, Silicone, for upper combustion, reduction and pyrolysis tubes	0990-2188
B	E21668.010P	10 pack	O Ring, Viton, for 11mm ends of combustion, reduction, pyrolysis and scrubbing/trap tubes	0240-1583
C	E25010.012P	12 pack	Filter Disc, glass fibre, 13mm diameter, for 11mm fittings of combustion, reduction, pyrolysis and scrubbing/trap tubes	0240-0137

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Continued . . . Seals and 'O' Rings

**Elementar Vario Micro Cube Elemental Analyser Seals & 'O' Rings**



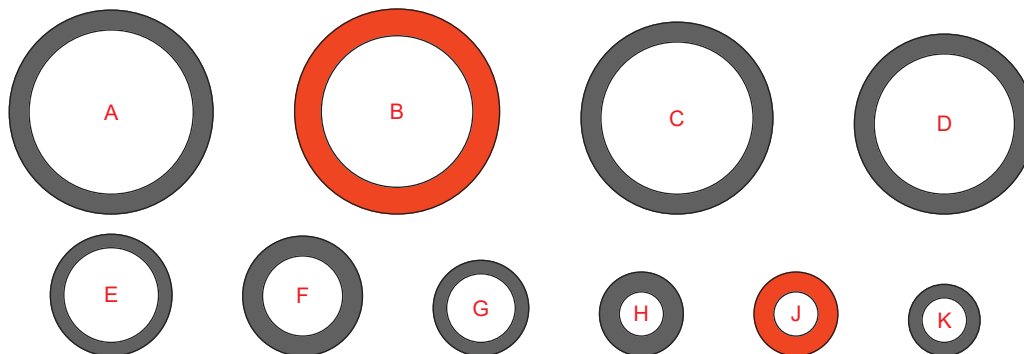
Ref	OEA Labs Part No.	Pack Size	Description	Elementar PartNo
<b>A</b>	E21679.001E	1 each	O Ring, Viton, ball valve block	05.00-0372
<b>B</b>	E21678.001E	1 each	O Ring, Viton, ball valve block	05.00-0371
<b>C</b>	E21672.001E	1 each	O Ring, Viton, ball valve block	03.65-4629
<b>D</b>	E21694.001E	1 each	O Ring, Viton	03.00-2267
<b>E</b>	E21671.001E	1 each	O Ring, Viton, for plug 11.01-1004/4	03.65-4627
<b>F</b>	E21628.001E E21628.010P	100mm 10x10mm	Seal, Viton, ceramic lance	05.00-0247
<b>G</b>	E21681.001E	1 each	O Ring, Viton	05.00-0425
<b>H</b>	E21675.001E	1 each	O Ring, Viton, S13 ball & cup joints	05.00-0249
<b>J</b>	E21674.001E	1 each	O Ring, Silicone, S13 ball & cup joints	05.00-0248
<b>K</b>	E21690.001E	1 each	O Ring, Viton	05.00-0368
<b>L</b>	E21673.001E	1 each	O Ring, Silicone	03.65-4814
<b>M</b>	E21696.001E	1 each	O Ring, Viton	-
<b>N</b>	E21629.001E	1 each	Seal, Quadring, Viton	05.00-2304
<b>P</b>	E21676.001E	1 each	O Ring, Viton, U drying tube	05.00-0359
<b>R</b>	E21680.001E	1 each	O Ring, Viton, quartz bridge	05.00-0416
<b>S</b>	E21677.001E	1 each	O Ring, Viton, straight drying tube, GL14	05.00-0369
<b>T</b>	E21670.001E	1 each	O Ring, Silicone	03.65-4603
<b>U</b>	E21665.001E	1 each	O Ring, Viton	05.00-1566
<b>V</b>	E21695.001E	1 each	O Ring, Kalrez, quartz bridge	05.00-1302
<b>W</b>	E21632.001E	1 each	Seal, Quadring, Viton	05.00-2303
<b>X</b>	E21627.001E	1 each	Seal, Quadring, Viton, large ball & cup joints	05.00-0353
<b>Y</b>	E21669.001E	1 each	O Ring, Viton	05.00-2254
<b>Z</b>	E21667.001E	1 each	O Ring, Viton	05.00-2305

Continued . . .



## Continued . . . Seals and 'O' Rings

### Leco 900/932 Elemental Analyser Seals & 'O' Rings



Ref	OEA Labs Part No.	Pack Size	Description	Leco PartNo
<b>A</b>	E21688.001E	1 each	O Ring, Nitrile, sample block upper piston seal	589-551
<b>B</b>	E21689.001E	1 each	O Ring, Silicone, upper combustion/reduction tube	605-830
<b>C</b>	E21692.001E	1 each	O Ring, Nitrile, sample drop piston ends	774-613
<b>D</b>	E21684.001E	1 each	O Ring, Nitrile, sample block lower piston seal	772-910
<b>E</b>	E21691.001E	1 each	Seal, Viton, sample drop piston side	774-283
<b>F</b>	E21693.001E	1 each	O Ring, Viton, upper catalyst tube	778-114
<b>G</b>	E21690.001E	1 each	O Ring, Viton, lance grip	760-224
<b>H</b>	E21686.001E	1 each	O Ring, Viton, lower catalyst tube	772-520
<b>J</b>	E21685.001E	1 each	O Ring, Silicone, reagent/filter/lower combustion tube	605-828
<b>K</b>	E21687.001E	1 each	O Ring, Viton, catalyst heater upper assembly	772-738



## Parts for Elemental Analysers

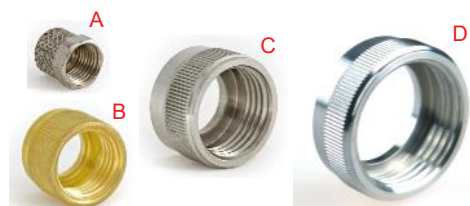
### Reaction Tube Fittings and Parts

Ref	CatNo	Pack	Description	OEM
A	E21748.001E	1 each	<b>Reaction Tube Connector</b> , Stainless Steel, Flash, 18mm to 2x1mm tube	350 08433
	E21749.001E	1 each	<b>Reaction Tube Connector</b> , Stainless Steel, Flash, 18mm to 4x2mm tube	350 08432
	E21750.001E	1 each	<b>Reaction Tube Connector</b> , Stainless Steel, Flash, 25mm to 6x4mm tube	350 08426
	E21751.001E	1 each	<b>Reaction Tube Connector</b> , Stainless Steel, Flash, 25mm to 4x2mm tube	350 08431
B	E21730.001E	1 each	<b>Reaction Tube Connector for Single Tube</b> , Stainless Steel, combustion tube to 2mm tube (6MB), complete with nut, seal and backing washer	347 09518 112 1330
C	E21800.001E	1 each	<b>Reaction Tube Connector for Single Tube</b> , for sulphur determination, PEEK high performance polymer, combustion tube to 2mm tube (6MB), complete with nut, seal, backing washer and E22151.010P viton ferrules. Not for use with 2mm aluminium ferrules.	-
D	E21736.001E	1 pair	<b>Reaction Tube Connector</b> , Stainless Steel, combustion to reduction, with 4mm PTFE Tube (standard 2mm PTFE tubing, olives & nuts can be used if preferred), complete with nuts, seals and backing washers	347 09530
d	E21826.001E	1 each	<b>Ferrule for Reaction Tube Connectors</b> , 4mm	290 34051
E	E21737.001E	1 each	<b>Reaction Tube Connector</b> , Stainless Steel, combustion to reduction, welded connecting tube, complete with nuts and backing washers	347 09512
F	E21813.001E	1 each	<b>Coupling (Linking) Joint</b> , stainless steel, 1" to 1/2", complete with knurled nuts	347 19421
G	E21833.001E	1 each	<b>Reaction Tube Connector</b> , Stainless Steel, Costech ECS4010, combustion to reduction tube, welded tube, without nuts, washers or seals	3060001
H	E21605.005P E21605.010P	5 pack 10 pack	<b>Seal, Viton, Profiled</b> , for upper (and lower) 18mm diameter reaction tubes	290 32910 061106
I	E21816.001E	1 each	<b>Reaction Tube Backing Washer</b> , stainless steel, 25 x 19 x 2mm	356 03210 202011202
	E21817.001E	1 each	<b>Reaction Tube Backing Washer</b> , brass, 25 x 19 x 2mm	356 03210
	E21841.001E	1 each	<b>Reaction Tube Backing Washer</b> , brass, Costech Quick Connect, Turbo N	
J	E21834.001E	1 each	<b>Reaction Tube Connector for Single Tube</b> , Stainless Steel, Costech ECS4010, without nuts, washers or seals	202010010
K	E21835.001E	1 each	<b>Nut for Coupling Connector</b> , Stainless Steel, Costech	202010901
L	E21814.001E	1 each	<b>Reaction Tube Support</b> , stainless steel	368 14256
M	E21827.001E	1 each	<b>Bottom Feed Adaptor</b> , for ceramic & glassy carbon tubes	
	E21635.002P	1 pack	<b>Soft Seals, Bottom Feed Adaptor</b> , 7mm ID glass carbon tubes	260 00063
	E21634.002P	1 pack	<b>Soft Seals, Bottom Feed Adaptor</b> , 9mm ID glass carbon tubes	
N	G16200.001E	1 each	<b>Connecting Tube</b> , Elementar, 65mm centres	11 001 331/4
n	G16210.001E	1 each	<b>Connecting Tube</b> , Elementar, 130mm centres	25 201 003
-	E21766.001E	1 each	<b>Reaction Tube Connector Liner</b> , PTFE, 18mm x 1/16, not shown	
-	E21767.001E	1 each	<b>Reaction Tube Connector Liner</b> , PTFE, 18mm x 2mm, not shown	
Q	E51010.002P	2 pack	<b>Furnace Top Insulating Collars</b> , high quality machined ceramic, ECS4010	096020
R	E51020.002P	2 pack	<b>Furnace Bottom Insulating Collars</b> , high quality machined ceramic, ECS4010	096019



### Knurled Retaining Nuts

Ref	CatNo	Pack	Description	OEM
A	E21733.001E	1 each	<b>Knurled Retaining Nut</b> , nickel plated brass, 5x3mm air tubing	350 02124
B	E21734.001E	1 each	<b>Knurled Retaining Nut</b> , Brass, 1/4" BSP	350 01106
C	E21735.001E	1 each	<b>Knurled Retaining Nut</b> , Stainless Steel, 1/2" BSP	350 01421
D	E21752.001E	1 each	<b>Knurled Manifold Nut</b> , Stainless Steel, 1" BSP	350 01427



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## Continued . . . Parts for Elemental Analysers

### Tubing Fittings



Ref	CatNo	Pack	Description	Thermo	Sercon	Costech	Elementar	Eurovector	Leco	Perkin Elmer
A	E21799.001E	1 each	Blanking Nut, Stainless Steel, 2mm (6MB)	350 45400						
B	E21723.010P	10 pack	Tubing Nut, Stainless Steel, 2mm (6MB)	350 40403		080001				
C	E21724.010P	10 pack	Tubing Olive, Aluminium, 2mm, symmetrical, type 1	290 34045 112 1140						
D	E21727.010P	10 pack	Tubing Olive, Aluminium, 2mm, asymmetrical, type 2			080002				
E	E21725.010P	10 pack	Tubing Olive, Aluminium, 1/16", symmetrical, type 3	290 34044 112 1130						
F	E21745.010P	10 pack	Tubing Olive, PTFE, 2mm, symmetrical, type 1	290 34545				E204009		
G	E21726.001E	1 each	Tubing Connector, Brass, 2mm tube (6MB) to 2mm tube (6MB)	34744100		080017				
H	E21746.001E	1 each	Tubing Connector, Stainless Steel, 2mm tube (6MB) to 2mm tube (6MB)							
I	E21728.001E	1 each	Connector, Stainless Steel, GL14 Threaded Scrubber, 'top hat' design, with 280mm approximately of 2mm tubing	347 39133						
J	E21837.010P	10 pack	Sealing Ball, Chromium Steel, 12mm				05.00-0397			
K	E21732.001E	1 each	Column Connector, Stainless Steel, 6mm tube to 2mm tube (6MB)	347 15401		091107				
L	E21797.001E	1 each	Column Connector, Stainless Steel, 8mm tube to 2mm tube (6MB)							
M	E21798.001E	1 each	Adaptor, Stainless Steel, 2mm tube (6MB) to 1/8" BSP male taper							
N	E21769.001E	1 each	Adaptor, Brass, 2mm tube (6MB) to M5 male							
O	E21802.001E	1 each	Adaptor, Brass, 2mm tube (6MB) to M5 female							
P	E21768.001E	1 each	Adaptor, Brass, 2mm tube port (6MB) thread to M5 male							
Q	E21742.001E	1 each	Adaptor, Brass, 2mm tube port (6MB) thread to M5 female							
R	E21770.001E	1 each	Connector, Nickel Plated Brass, 5x3mm air tube x M5 male, autosampler port							
S	E21771.001E	1 each	Connector, Nickel Plated Brass, 5 x 3mm air tube to 1/8" BSP male taper							
T	E21815.001E	1 each	Reducing Ferrule, PTFE, 1/8 to 1/16inch		SC0043					

*We can machine or adapt fittings to your requirements. Please enquire.*

### Miniature Fast Connect Fittings for Scrubbing Tubes

Ref	CatNo	Pack	Description	OEM
A	E21741.001E	1each	Fast Connector Female Body Coupling, Nickel Plated Brass, M5 male thread	
B	E21740.001E	1each	Fast Connector Male Plug Coupling, Stainless Steel, 2mm tube (6MB)	
C	E21743.001E	1 each	Fast Connector Female Body Coupling, Nickel Plated Brass, 5x3mm air tube	
D	E21744.001E	1 each	Fast Connector Male Plug Coupling, Nickel Plated Brass, 5x3mm air tube	
E	E21738.001S	1 set	Fast Connector Male & Female Coupling, Stainless Steel plug & Nickel Plated body, without 2mm tube port (6MB) adaptor	190 50208
F	E21739.001S	1 set	Fast Connector Male & Female Coupling, Stainless Steel plug & Nickel Plated body, with 2mm tube port (6MB) adaptor	190 50209
G	E21742.001E	1 each	Adaptor, Brass, 2mm tube port (6MB) thread to M5 female	



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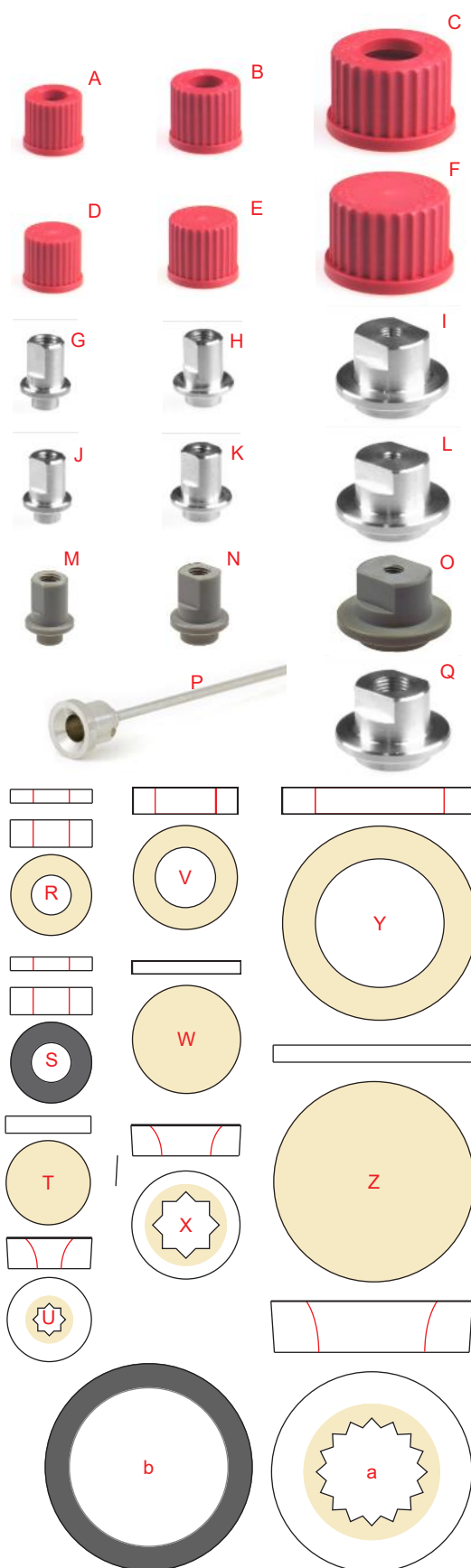


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**Scrubbing Tube Fittings**

Ref	OEA CatNo	Pack	Description
<b>A</b>	E21755.002P	2 pack	Cap for GL14 Threaded Scrubber, with hole
<b>B</b>	E21753.002P	2 pack	Cap for GL18 Threaded Scrubber, with hole
<b>C</b>	E21760.002P	2 pack	Cap for GL32 Threaded Scrubber, with hole
<b>D</b>	E21756.002P	2 pack	Cap for GL14 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use
<b>E</b>	E21754.002P	2 pack	Cap for GL18 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use
<b>F</b>	E21761.002P	2 pack	Cap for GL32 Threaded Scrubber, without hole, for sealing off scrubbing tubes when not in use
<b>G</b>	E21758.002P	2 pack	Connector GL14 Threaded Scrubber, stainless steel, 2mm tube, 6MB, 7mm flats, with E21617.002P silicone seals
<b>H</b>	E21783.002P	2 pack	Connector GL18 Threaded Scrubber, stainless steel, 2mm tube, 6MB, 8mm flats, with E21618.002P silicone seals
<b>I</b>	E21763.002P	2 pack	Connector GL32 Threaded Scrubber, stainless steel 2mm tube, 6MB, 14mm flats, with E21619.002P silicone seals
<b>J</b>	E21786.002P	2 pack	Connector GL14 Threaded Scrubber, stainless steel, M5 female thread, 7mm flats, with E21617.002P silicone seals
<b>K</b>	E21788.002P	2 pack	Connector GL18 Threaded Scrubber, stainless steel, M5 female thread, 8mm flats, with E21618.002P silicone seals
<b>L</b>	E21791.002P	2 pack	Connector GL32 Threaded Scrubber, stainless steel, M5 female thread, 14mm flats, with E21619.002P silicone seals
<b>M</b>	E21832.002P	2 pack	Connector GL14 Threaded Scrubber, PEEK high performance polymer, 2mm tube, 6MB, 7mm flats, with E21617.002P silicone seals and E22151.010P viton ferrules. Not for use with 2mm aluminium ferrules.
<b>N</b>	E21831.002P	2 pack	Connector GL18 Threaded Scrubber, PEEK high performance polymer, 2mm tube, 6MB, 8mm flats, with E21618.002P silicone seals and E22151.010P viton ferrules. Not for use with 2mm aluminium ferrules.
<b>O</b>	E21830.002P	2 pack	Connector GL32 Threaded Scrubber, PEEK high performance polymer, 2mm tube, 6MB, 14mm flats, with E21619.002P silicone seals and E22151.010P viton ferrules. Not for use with 2mm aluminium ferrules.
<b>P</b>	E21728.001E	1 each	Connector GL14 Threaded Scrubber, stainless steel, 'top hat', with 280mm 2mm tubing
<b>Q</b>	E21793.002P	2 pack	Connector GL32 Threaded Scrubber, stainless, 1/8" NPT female, 14mm flats, with E21619.002P silicone seals
<b>R</b>	E21614.002P	2 pack	Seal, Silicone, GL14 thread, half thickness, for GL14 scrubbing tube fittings
	E21617.002P	2 pack	Seal, Silicone, GL14 thread, for GL14 scrubbing tube fittings
<b>S</b>	E21612.002P	2 pack	Seal, Viton, GL14 thread, half thickness, for GL14 scrubbing tube fittings
	E21613.002P	2 pack	Seal, Viton, GL14 thread, for GL14 scrubbing tube fittings
<b>T</b>	E21616.002P	2 pack	Seal, Silicone, GL14, for sealing off GL14 scrubbing tubes when not in use
<b>U</b>	E21615.002P	2 pack	Seal, PTFE Faced Silicone, GL14 thread, for GL14 'top hat' E21728.001E scrubbing tube fittings
<b>V</b>	E21618.002P	2 pack	Seal, Silicone, GL18 thread, for GL18 scrubbing tubes
<b>W</b>	E21623.002P	2 pack	Seal, Silicone, GL18, for sealing off GL18 scrubbing tubes when not in use
<b>X</b>	E21622.002P	2 pack	Seal, PTFE faced Silicone GL18 thread, for GL18 scrubbing tubes
<b>Y</b>	E21619.002P	2 pack	Seal, Silicone, GL32 thread, for GL32 scrubbing tube fittings
<b>Z</b>	E21621.002	2 pack	Seal, Silicone, GL32, for sealing off GL32 scrubbing tubes when not in use
<b>a</b>	E21620.002P	2 pack	Seal, PTFE faced Silicone GL32 thread, for GL32 scrubbing tubes
<b>b</b>	E21663.002P	2 pack	O Ring, Viton, for large threaded acrylic scrubbing tubes

For seals, options and assembly details see 'Scrubbing Tubes and Parts' section of this catalogue.



Continued . . .



## Continued . . . Parts for Elemental Analysers

### Tubing for Elemental Analysers

CatNo	Pack	Description
E21705.005M	5 metres	<b>Tubing</b> , Nylon, blue, air, 5 x 3mm
E21706.005M	5 metres	<b>Tubing</b> , Polyurethane, blue, air, 5 x 3mm
E21713.001M	per metre	<b>Tubing</b> , PTFE, 6 x 4mm
E21714.001M	per metre	<b>Tubing</b> , PTFE, 4 x 2mm
E21715.005M	5 metres	<b>Tubing</b> , PTFE, 2 x 1mm
E21778.001M	per metre	<b>Tubing</b> , PTFE, 1/16" x 0.8mm
E21779.001M	per metre	<b>Tubing</b> , PTFE, 1/8" x 1.5mm
E21710.001M E21710.002M E21710.003M	1 metres 2 metres 3 metres	<b>Tubing</b> , Stainless Steel, 2 x 1mm
E21711.001M	per metre	<b>Tubing</b> , Stainless Steel, 1/16" x 0.030"
E21712.001M	per metre	<b>Tubing</b> , Stainless Steel, 1/16" x 0.007"
E21716.001F	per foot	<b>Tubing</b> , Stainless Steel Sulfinert Lined, 1/16" x 0.010"
E21717.001F	per foot	<b>Tubing</b> , Stainless Steel Sulfinert Lined, 1/16" x 0.020"
E21718.001F	per foot	<b>Tubing</b> , Stainless Steel Sulfinert Lined, 1/16" x 0.030"
E21719.001F	per foot	<b>Tubing</b> , Stainless Steel Sulfinert Lined, 1/16" x 0.040"
E21720.001F	per foot	<b>Tubing</b> , Stainless Steel Sulfinert Lined, 1/8" x 0.085"
E21721.001F	per foot	<b>Tubing</b> , Stainless Steel Sulfinert Lined, 1/4" x 0.210"



### Some Useful Swagelok Fittings and Products

Ref	CatNo	Pack	Description
A	E21765.001E	1 each	<b>Tubing Adaptor</b> , Stainless Steel, Swagelok, 6mm to 2mm, SS-6M0-6-2M
B	E21773.001E	1 each	<b>Tubing Adaptor</b> , Stainless Steel, Swagelok, 3 to 2mm tube, SS-3M0-6-2M
C	E21810.001E	1 each	<b>Tubing Connector</b> , Stainless Steel, Swagelok, 2mm to 2mm tube, SS-2M0-6
D	E21795.001E	1 each	<b>Male Connector</b> , Stainless Steel, Swagelok, 1/16" tube to 1/8" NPTT, SS-100-1-2
E	E21796.001E	1 each	<b>Male Connector</b> , Stainless Steel, Swagelok, 1/8" tube to 1/8" NPTT, SS-200-1-2
F	E21774.001E	1 each	<b>Front Ferrule</b> , Stainless Steel, Swagelok, 2mm, SS-2M3-1
	E21775.001E	1 each	<b>Back Ferrule</b> , Stainless Steel, Swagelok, 2mm, SS-2M4-1
	E21776.001E	1 each	<b>Front Ferrule</b> , Stainless Steel, Swagelok, 3mm, SS-3M3-1
	E21777.001E	1 each	<b>Back Ferrule</b> , Stainless Steel, Swagelok, 3mm, SS-3M4-1
	E21804.001E	1 each	<b>Front Ferrule</b> , Stainless Steel, Swagelok, 6mm, SS-6M3-1
	E21805.001E	1 each	<b>Back Ferrule</b> , Stainless Steel, Swagelok, 6mm, SS-6M4-1
	E21808.001E	1 each	<b>Front Ferrule</b> , Stainless Steel, Swagelok, 1/16", SS-103-1
	E21809.001E	1 each	<b>Back Ferrule</b> , Stainless Steel, Swagelok, 1/16", SS-104-1
G	E21806.001E	1 each	<b>Front Ferrule</b> , Stainless Steel, Swagelok, 1/8", SS-203-1
	E21807.001E	1 each	<b>Back Ferrule</b> , Stainless Steel, Swagelok, 1/8", SS-204-1
G	M43110.001E	1 each	<b>Snoop Liquid Leak Detector</b> , 236ml, MS-SNOOP-8OZ
H	M43111.001E	1 each	<b>Snoop Liquid Leak Detector</b> , 59ml, MS-SNOOP-2OZ
J	M43120.001E	1 each	<b>Swak Pipe Thread Sealant</b> , anaerobic, contains PTFE, 6ml, MS-PTS-6



### Gas Injection Port & Parts

CatNo	Pack	Description
E21844.001E	1 kit	<b>Gas Injection Port Kit</b> , 2mm or 1/8" in-line, complete with T piece, 2mm adaptors, septum injection nut, septum support, 2mm PTFE tube and 1 low bleed septum
E21845.001E	1 each	<b>Septum Support</b> , for gas injection port E21844.001E
E21848.001E	1 each	<b>Septum Injection Nut</b> , Stainless Steel, for gas injection port E21844.001E
M32630.010P	10 pack	<b>Injection Septa</b> , 1/4", low bleed, for gas injection port E21844.001E
M32170.001E	1 each	<b>Gas Tight/SampleLock</b> , 500ul, 1750SL/RN, 81256, replaceable needle
M32180.001E	1 each	<b>Gas Tight/SampleLock</b> , 1ml, 1001SL/RN, 81356, replaceable needle
M32190.001E	1 each	<b>Gas Tight/SampleLock</b> , 2.5ml, 1002SL/RN, 81456, replaceable needle
M32321.006P	6 pack	<b>Needles</b> , bevelled tip, 22ga, 50mm 7779-01, 250ul to 10ml




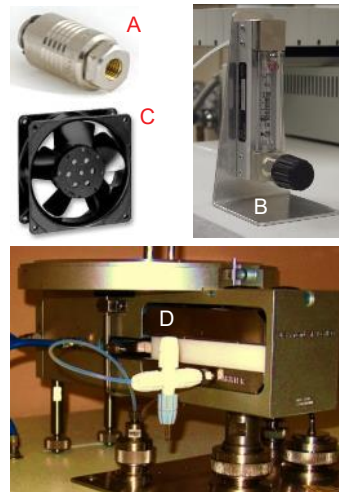
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## Continued . . . Parts for Elemental Analysers

### Miscellaneous Parts for Elemental Analysers

Ref	CatNo	Pack	Description	Thermo
<b>A</b>	<b>E21731.001E</b>	1 each	<b>Purge Valve</b> , slide actuation, M5 female ports each end, as fitted to NA1500 series 1 autosampler purge line	405 23005
<b>B</b>	<b>M52100.001E</b>	1 each	<b>Purge Flowmeter</b> , oxygen, 0-100cc/min, with flow needle valve, complete with stand and 2mm tube fittings/tube/ferrules, connects between instrument purge outlet and autosampler purge inlet for an easy visual check/control of purge flow.	
	<b>M52110.001E</b>	1 each	<b>Purge Flowmeter</b> , oxygen, 0-100cc/min, without flow needle valve, complete with stand and 2mm tube fittings/tube/ferrules, connects between instrument purge outlet and autosampler purge inlet for an easy visual check/control of purge flow.	
	<b>M52120.001E</b>	1 each	<b>Purge Flowmeter</b> , helium, 0-100cc/min, with flow needle valve, complete with stand and 2mm tube fittings/tube/ferrules, connects between instrument purge outlet and autosampler purge inlet for an easy visual check/control of purge flow.	
	<b>M52130.001E</b>	1 each	<b>Purge Flowmeter</b> , helium, 0-100cc/min, without flow needle valve, complete with stand and 2mm tube fittings/tube/ferrules, connects between instrument purge outlet and autosampler purge inlet for an easy visual check/control of purge flow.	
<b>C</b>	<b>E21230.001E</b>	1 each	<b>Cooling Fan</b> , 240vac, with bearings for long operating life, <b>160m<sup>3</sup>/hr</b> , 5 blade	406 00300
	<b>E21260.001E</b>	1 each	<b>Cooling Fan</b> , 240vac, with bearings for long operating life, <b>100m<sup>3</sup>/hr</b> , 3 blades	
<b>D</b>	<b>E21790.001E</b>	1 each	<b>Chloropentane Doping System</b> , for oxygen analysis, complete with 1ml of chloropentane, 2mm tube fittings/tube/ferrules, connects between instrument carrier outlet and autosampler carrier inlet.	
	<b>* R90010.001M R90010.010M</b>	1ml 10ml	<b>Chloropentane Doping Reagent</b> , for helium carrier doping	



\* Please note that 1gm pack quantities are NOT subject to Dangerous Goods shipment regulations or charges.

### Cables for Elemental Analysers

CatNo	Pack	Description	Thermo
<b>E21811.001E</b>	1 each	<b>Start/Stop Cable</b> , EA1110, NA2500 & NA2100, wire terminals to 25 way D Plug (pins 11 & 22 connected), 1.5m approx	230 43595
<b>E21812.001E</b>	1 each	<b>Start/Stop Cable</b> , EA1108, NA1500/1&2 & NA2000, wire terminals to 25 way D Plug (pins 9 & 22 connected), 1.5m approx	230 43597
<b>E21822.001E</b>	1 each	<b>Signal Cable</b> , EA1108, NA1500/1&2, NA2000, 2 wires plus screen flying lead	230 43596
<b>E21823.001E</b>	1 each	<b>RS232 Cable</b> , EA1110, NA2500 & NA2100 control, 25 pin plug to 9 pin socket	230 35060
<b>E21824.001E</b>	1 each	<b>PC Acquisition Cable</b> , EA1110, NA2500 & NA2100 data to USB Box, 9 pin plug to 4 leads	230 38200
<b>E21825.001E</b>	1 each	<b>Earthing Cable</b> , USB box to elemental analyser earthing terminals	230 43620
<b>E21828.001E</b>	1 each	<b>USB Cable</b> , 5 metres	



### Solenoid Valves

CatNo	Pack	Description	Thermo
<b>E21818.001E</b>	1 each	<b>Solenoid Valve Assembly</b> , complete, EV6 & EV7	405 19015
<b>E21819.001E</b>	1 each	<b>Solenoid Valve</b> , with coil, Sirai to 04/99, EV1 to EV5	405 17080
<b>E21838.001E</b>	1 each	<b>Reverser Gasket</b> , EV6 & EV7	
<b>E21839.001E</b>	1 each	<b>Solenoid Valve</b> , with coil and seal, Sirai, EV6 & EV7	
<b>E21840.001E</b>	1 kit	<b>Valve Kit</b> , end plates, reverser gasket, end seals, studs, washers & nuts	
<b>E21842.001E</b>	1 each	<b>End Plates &amp; End Seal Gasket</b> , EV6 & EV7	
<b>E21843.001E</b>	1 each	<b>End Gasket</b> , EV6 & EV7	





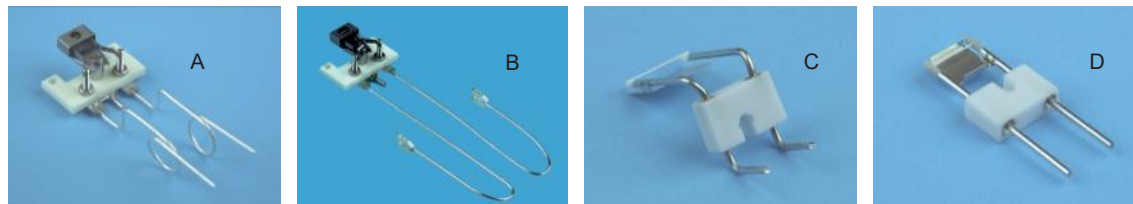


## Parts for Isotope Ratio Mass Spectrometers



### Parts for Isotope Ratio Mass Spectrometers

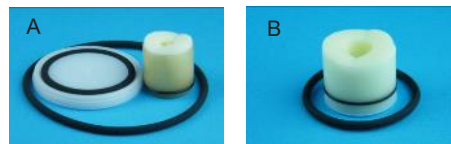
#### Filaments for Mass Spectrometers



Ref	CatNo	Pack	Description	Thermo	Sercon	IsoPrime
A	E41010.001E	1 each	Source Filament, tungsten wire, Delta+/XL/XP/V and Gas Bench MS, OEM	102 7920		
B	E41015.001E	1 each	Source Filament, tungsten wire, MAT25x, MS, OEM	067 2460		
C	E41020.001E	1 each	Source Filament, Isoprime, non-OEM sourced			M693285 BC1
D	E41030.001E	1 each	Source Filament, Sercon/Europa 20-20, OEM		SC0028	

#### Turbo Wicks - Operating Fluid Reservoirs for Vacuum Systems

Ref	CatNo	Pack	Description
A	M51100.001E	1 each	Turbo Wick, Operating Fluid Reservoir, Pfeiffer PM 103 593 AT
B	M51110.001E	1 each	Turbo Wick, Operating Fluid Reservoir, Pfeiffer PM 063 265 T



#### High Purity Platinum, Copper and Nickel Wires for GC-C-IRMS

CatNo	Pack	Description	Wire Diameter
M21100.001M	1 metre	Platinum Wire, high purity, spooled	0.1mm
M21100.002M	2 metres	Platinum Wire, high purity, spooled	0.1mm
M22100.010M	10 metres	Copper Wire, high purity, spooled	0.1mm
M22125.010M	10 metres	Copper Wire, high purity, spooled	0.125mm
M23100.010M	10 metres	Nickel Wire, high purity, spooled	0.1mm
M23125.010M	10 metres	Nickel Wire, high purity, spooled	0.125mm

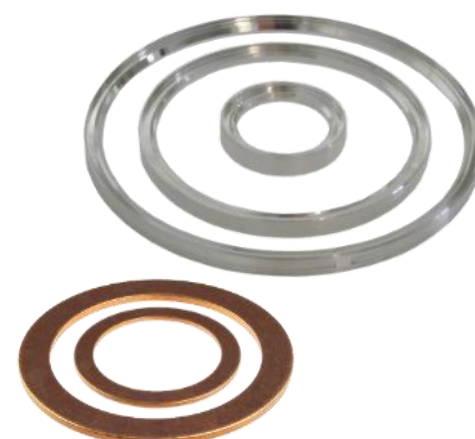
Please see 'Ceramic Tubes and Materials' section for ceramic reaction tubes.



#### High Vacuum Metal Seals & Flange Gaskets

CatNo	Pack	Description	OEM PartNo
E31160.001E	1 each	Metal Seal, aluminium, high vacuum, knife edge, outside centering, ISO100	056 9110
E31150.001E	1 each	Metal Seal, aluminium, high vacuum, knife edge, outside centering, ISO63	069 3220
E31110.001E	1 each	Metal Seal, aluminium, high vacuum, knife edge, outside centering, MS20/25	055 2930
E31200.001E	1 each	Copper Gasket, 63mm, source seal 20-20	SC0032
E31210.001E	1 each	Copper Gasket, 38mm	

Other sizes are available. Please enquire.



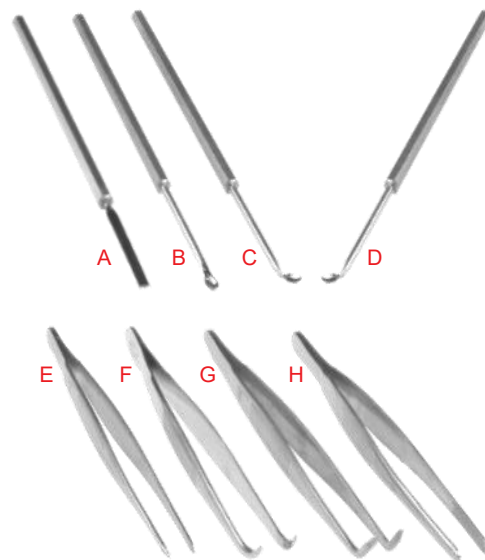
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## Miscellaneous Items

### Micro-Spatulas and Forceps

Ref	CatNo	Pack	Description
A	M11100.001E	1 each	<b>Micro-spatula</b> , 3mm wide upturned blade, hex handle, 140mm long
	M11120.001E	1 each	<b>Micro-spatula</b> , straight spoon, 3 x 5mm, hex handle, 150mm long
B	M11121.001E	1 each	<b>Micro-spatula</b> , straight spoon, 4 x 6mm, hex handle, 170mm long
	M11122.001E	1 each	<b>Micro-spatula</b> , straight spoon, 5 x 8mm, hex handle, 190mm long
C	M11110.001E	1 each	<b>Micro-spatula</b> , cranked spoon, <b>right hand use</b> , 3 x 5mm, hex handle, 150mm long
	M11111.001E	1 each	<b>Micro-spatula</b> , cranked spoon, <b>right hand use</b> , 4 x 6mm, hex handle, 170mm long
D	M11112.001E	1 each	<b>Micro-spatula</b> , cranked spoon, <b>right hand use</b> , 5 x 8mm, hex handle, 190mm long
	M11115.001E	1 each	<b>Micro-spatula</b> , cranked spoon, <b>left hand use</b> , 3 x 5mm, hex handle, 150mm long
E	M11116.001E	1 each	<b>Micro-spatula</b> , cranked spoon, <b>left hand use</b> , 4 x 6mm, hex handle, 170mm long
	M11117.001E	1 each	<b>Micro-spatula</b> , cranked spoon, <b>left hand use</b> , 5 x 8mm, hex handle, 190mm long
E	M11220.001E	1 each	<b>Forceps</b> , straight pointed end, 130mm overall length
F	M11230.001E	1 each	<b>Forceps</b> , curved pointed end, 130mm overall length
G	M11240.001E	1 each	<b>Forceps</b> , bent pointed end, 130mm overall length
H	M11210.001E	1 each	<b>Forceps</b> , straight blunt end, 130mm overall length



### Capsule Trays

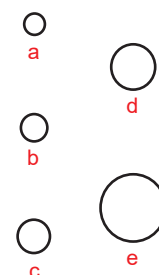
CatNo	Pack	Description	Holes	Rows	Columns	Hole Diameter	Hole Depth
M10200.001E	1 each	<b>Capsule Tray and Lid</b> , flat bottom holes	96	8	12	6.75mm	11.25mm
M10205.001E	1 each	<b>Capsule Tray and Lid</b> , flat bottom holes	48	6	8	10mm	17.25mm
M10210.001E	1 each	<b>Capsule Tray and Lid</b> , flat bottom holes	24	4	6	16mm	17.25mm



### Absorbitz - Liquid Absorbing Pads for Non-Volatile Liquid Samples

Liquid absorbing pads are used to weigh non-volatile liquid samples into pressed tin or silver capsules. Type N is suitable for CHN and type O for CHN, Sulphur and Oxygen (elemental) analysis. Simply insert into the bottom of the capsule and dispense the appropriate volume of sample onto the pad using a micro-syringe or micro-pipette. Suitable for most non-volatile liquids. Pre-treated for low blank background. Use two or more for larger samples.

Ref	CatNo	Pack	Description	Capsule Diameter	Capacity
a	M14035.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	3.2 to 3.5mm	10ul
	M14036.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	3.2 to 3.5mm	5ul
b	M14040.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	4mm	15ul
	M14041.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	4mm	8ul
c	M14050.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	5mm	20ul
	M14051.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	5mm	10ul
d	M14060.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	6 to 6.5mm	30ul
	M14061.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	6 to 6.5mm	15ul
e	M14100.100P	100 pack	<b>Absorbitz N Pads</b> , suitable for CHN analysis	10mm	80ul
	M14101.100P	100 pack	<b>Absorbitz O Pads</b> , suitable for CHN, O & S analysis	10mm	40ul



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## Miscellaneous Items

### Continued . . . Miscellaneous Items

#### Micropipettes for Liquid Samples

Ref	CatNo	Pack	Description
A	M41101.250P	250 pack	<b>Micropipettes</b> , 1 microlitre, end to end filling, 29mm length, with pipetting aid
	M41102.250P	250 pack	<b>Micropipettes</b> , 2 microlitres, end to end filling, 29mm length, with pipetting aid
	M41105.250P	250 pack	<b>Micropipettes</b> , 5 microlitres, end to end filling, 29mm length, with pipetting aid
B	M41205.250P	250 pack	<b>Micropipettes</b> , 5 microlitres, graduated at 1 microlitre steps, 29mm length, with pipetting aid
C	M41100.001E	1 each	<b>Micropipetting Aid</b> , spare
<i>Larger sizes available. Please enquire.</i>			



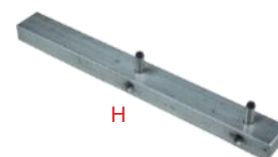
#### Spanners

Ref	CatNo	Pack	Description
D	M71008.001E	1 each	<b>Spanner</b> , 8mm, single open ended, fits 2mm tubing nuts
E	M71014.001E	1 each	<b>Spanner</b> , 14mm, single open ended, fits reaction tube connector body
F	M71019.001E	1 each	<b>Spanner</b> , 19mm, single open ended, fits autosampler manifold
G	M71032.001E	1 each	<b>Spanner</b> , 32mm, single open ended, fits reaction tube connector nut
<i>Most sizes available. Please enquire.</i>			



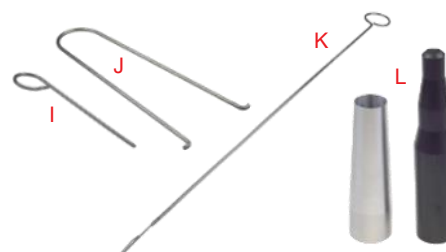
#### Pin Spanner

Ref	CatNo	Pack	Description
H	M90006.001E	1 each	<b>Face Spanner, bottom cover</b> , 60mm pin centres, TMH/U 021-071, Pfeiffer N5709 103



#### Extraction Tools

Ref	CatNo	Pack	Description	OEM PartNo
I	M71110.001E	1 each	<b>Metal Reaction Tube Extraction Tool</b> , for Stainless Steel and HPAR tubes	205 00626
J	M71120.001E	1 each	<b>Crucible Extraction Tool</b> , for silica, Stainless Steel and HPAR crucibles	205 00627
K	M71125.001E	1 each	<b>Graphite Crucible Remover/Extraction Tool</b> , TC/EA	114 1380
L	M90100.001E	1 each	<b>Piston Seal Replacement Tool</b> , MAS200R Autosampler	-



#### Tubing Cutters

Ref	CatNo	Pack	Description
M	M71130.001E	1 each	<b>Tubing Cutter</b> , suitable for PTFE and nylon tube from 1mm to 12mm
N	M71140.001E	1 each	<b>Tubing Cutter</b> , suitable for stainless steel tubing up to 2mm



#### Safety Bin for Hot Reaction Tubes

Ref	CatNo	Pack	Description
O	M71200.001E	1 each	<b>Safety Bin for Hot Reaction Tubes</b> , complete with heat tray, lid and warning labels, can also be used as a fish poacher



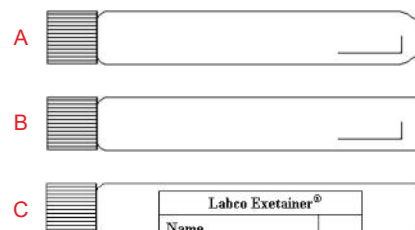
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**Continued . . . Miscellaneous Items**

**Exetainer Vials**

Ref	CatNo	Pack	Description
<b>A</b>	<b>M33130.100P</b> <b>M33130.01KP</b>	100 pack 1000 pack	<b>Labco Exetainer Vial</b> , 12ml, borosilicate glass, round bottom, white septum cap
<b>B</b>	<b>M33100.100P</b> <b>M33100.01KP</b>	100 pack 1000 pack	<b>Labco Exetainer Vial</b> , 12ml, soda glass, flat bottom, white septum cap
<b>C</b>	<b>M33110.100P</b> <b>M33110.01KP</b>	100 pack 1000 pack	<b>Labco Exetainer Vial</b> , 12ml, soda glass, flat bottom, coated, evacuated, with label and white septum cap
	<b>M33150.100P</b> <b>M33150.01KP</b>	100 pack 1000 pack	<b>Labco Exetainer Cap</b> , white with septum



**Ezee Filter Separators**

Graduated polypropylene tube with sintered polyethylene filter designed for use with 16mm tubes. Just insert the end of the device into the tube and apply downward pressure until the filtered solution passes into the graduated barrel of the device. Ezee Filter Separators are ideal for cleansing samples before analysis, in particular, archaeological samples where insoluble residues need to be removed prior to Carbon-14 dating and isotope studies.

Ref	CatNo	Pack	Description
<b>D</b>	<b>M44010.100P</b>	100 pack	<b>Ezee Filter Separator</b> , 9ml, polyethylene, for use with 16mm tubes, 60 to 90 micron



**Serum/Injection Bottles, Septa/Stoppers & Crimp Caps**

Ref	CatNo	Pack	Description
	<b>M34015.001E</b>	1 each	<b>Serum/Injection Bottle</b> , 15ml, 20mm crimp neck
	<b>M34025.001E</b>	1 each	<b>Serum/Injection Bottle</b> , 25ml, 20mm crimp neck
<b>E</b>	<b>M34050.001E</b>	1 each	<b>Serum/Injection Bottle</b> , 50ml, 20mm crimp neck
	<b>M34100.001E</b>	1 each	<b>Serum/Injection Bottle</b> , 100ml, 20mm crimp neck
	<b>M34200.001E</b>	1 each	<b>Serum/Injection Bottle</b> , 200ml, 20mm crimp neck
<b>F</b>	<b>M32640.100P</b>	100 pack	<b>Injection Septa/Stopper</b> , for 20mm crimp, blue butyl rubber
<b>G</b>	<b>M34350.010P</b>	10 pack	<b>Injection Septa/Stopper</b> , for 20mm crimp, siliconized bromo-butyl rubber
<b>H</b>	<b>M34300.010P</b>	10 pack	<b>Aluminium Crimp Cap</b> , for 20mm crimp, tear off tab







## Terms and Conditions

### 1. Prices

Unless agreed in writing by OEA Laboratories, all quotations expire 30 days following the date of quotation. All prices are exclusive of VAT, duties and any other local taxes.

### 2. Handling and Use

Any chemicals supplied should be handled only by qualified individuals trained in laboratory procedures and familiar with their potential hazards. Some of the chemicals supplied may be extremely toxic, hazardous or flammable. Products are supplied on the condition that the customer accepts responsibility for any accident arising from their handling or use. All products are supplied for laboratory use only.

### 3. Disposal of Waste

The customer warrants that all chemicals will be disposed of in a safe and environmentally friendly manner in line with current legislation.

### 4. COSHH

To comply with the customers own COSHH regulations, or similar such regulations, Material Safety Data Sheets (MSDS) are available for all appropriate products supplied by OEA Labs.

### 5. Payment Terms

OEA Laboratories payment terms are normally net 30 days unless otherwise quoted in writing. Credit or debit card payments will not be debited until your order is ready for dispatch.

### 6. Returns, Refunds or Incorrectly Ordered Goods

Our products have been developed and tested to perform to the highest standards in elemental microanalysis and isotope ratio mass spectrometry applications. All of our products are unconditionally guaranteed to meet your expectations. If we fail to meet your standards for whatever reason we will issue a refund in full. You can return such items within 14 days of delivery. Just call us and we will arrange collection free of charge and issue a full refund. If any items are damaged, incorrect, missing or faulty please contact us within 7 days. We will arrange an immediate replacement to be sent and if necessary arrange collection free of charge. No products may be returned if any seals have been broken except by agreement.

### 7. Cancellations

Orders may only be cancelled in writing unless otherwise agreed. Please telephone us in the first instance to discuss details. Cancellation of orders after the goods have been dispatched from OEA Laboratories can be accepted in legitimate circumstances but we may need to charge for the packing and shipping charges incurred.

### 8. Damaged Goods in Transit

In the event of goods being damaged during transit, OEA Laboratories must be informed within 7 days of receipt of the goods. When requested, damaged goods must be returned to OEA Laboratories for inspection before replacements are dispatched. Under no circumstances should a customer accept or sign for goods from a courier that are clearly damaged or potentially damaged. The customer must retain all packaging from damaged goods for inspection by an OEA Laboratories' representative or a representative of the courier.

### 9. Title and Risk

Goods supplied by OEA Labs shall remain the property of OEA Labs until paid for in full by the Customer. The customer will be liable for any loss, damage or use of products between delivery and such a time as full payment is received.

### 10. Delivery

OEA Laboratories shall make every effort to meet any delivery date quoted but shall not be liable for any loss or damage arising directly or indirectly from delay in delivery.

### 11. Shipping charges

All quotations given for international shipments are estimations given in good faith only. OEA Laboratories will invoice for such charges at cost and will provide proof of such charges if required. OEA Laboratories shall not be liable for additional charges incurred such as customs clearance, duty, local taxes and onward shipping charges.

### 12. Cancellations

Customer orders may only be cancelled in writing unless otherwise agreed. Please telephone us in the first instance to discuss details. Cancellation of orders after the goods have been dispatched from OEA Laboratories can be accepted in legitimate circumstances but the customer may be liable for packing and shipping charges incurred.

### 13. Insolvency

In the event that the customer shall suffer insolvency, bankruptcy or a receiver be appointed, any goods that have not been paid for in full shall remain the property of, and be recovered by OEA Laboratories.

### 14. Public and Products Liability

Any claims against OEA Laboratories in respect of damage to property or persons shall be limited to the value of the contract.

### 15. Warranty

OEA Laboratories warrants its products against defects in materials, workmanship and design. No liability for loss or damage in excess of the purchase price of the goods will be accepted.

### 16. Severability and Waiver

In the event that one of these Terms and Conditions shall be found to be void, failure to enforce such condition shall not be regarded as a waiver of the remaining Terms and Conditions.

### 17. Relevant Law

These Terms and Conditions and the contracts to which they relate shall in all respects be governed and construed in accordance with the laws of England and Wales.

### 18. Acceptance

The placing of an order with OEA Laboratories implies acceptance of the above conditions.

### 19. Expert Testimony

OEA Laboratories does not provide Expert Testimony in legal proceedings.

### 20. Anti-Bribery Policy

It is the policy of OEA Laboratories to conduct all of our business in an honest and ethical manner. We will report any incident of attempted bribery and uphold all laws relevant to countering bribery and corruption and remain bound by the laws of the UK including the Bribery Act 2010 in respect of our conduct at home and abroad. This policy applies to all individuals working for and on behalf of OEA Laboratories or any other person associated with us wherever they are located.

### 21. Anti-Competition Policy

OEA Laboratories does not condone any activity which might in any way restrict fair competition. We will report any suspected anti-competitive conduct and will uphold all laws relevant to anti-competitive activities and remain bound by the competition laws of the UK and the EU in respect of our conduct at home and abroad. This policy applies to all individuals working for and on behalf of OEA Laboratories or any other person associated with us wherever they are located.

### 22. Miscellaneous

The use of the term 'OEA Laboratories' or 'OEA Labs' in the above Terms and Conditions shall mean 'OEA Laboratories Limited'.



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