

CATALOGUE



Additional Products for CF-IRMS

To be used in conjunction with our main CHNOS Analysis catalogue



Ordering Information

We are happy to accept orders by any of the following methods:

Phone: +44 (0)1837 54446

Fax: +44 (0)1837 54544

E-mail: info@microanalysis.co.uk

Mail: Elemental Microanalysis Ltd
1 Hameldown Road
Okehampton Business Park
Okehampton
Devon EX20 1UB
United Kingdom

We can invoice you in Sterling, Euro or US Dollar and accept Visa, Mastercard and American Express, account facilities are readily available for regular customers, please enquire.

Shipping worldwide

We regularly ship directly to customers in all parts of the world. Local dealers are available in many countries: contact us for details.



Available locally from:


QUANTANALITICA

Via Marco D'Oggiono 29
23848, Oggiono (LC)

Tel: +39 0341260384 Fax: +39 0341574293
email: info@quantanalitica.com

Other literature available from Elemental Microanalysis

In addition to this catalogue a range of other catalogues and product sheets are available:

Catalogues

We publish catalogues covering the following areas of elemental analysis:

- Organic Elemental (CHN/O/S)
- Nitrogen/Protein
- Inorganic
- Carbon/Sulphur
- IRMS



Product sheets

Product sheets are available for every instrument we support. These cover all the common day-to-day items required to run your instrument. These sheets are laminated to help them survive in the lab environment.



Contract analysis service

We also offer a contract analysis service for a variety of (mainly) organic compounds. Full details are in this brochure.



All literature is available using the 'fax-back' form on the rear cover of this catalogue or can be downloaded from our website.

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Faxback form

This additional brochure contains extra configurations and products that are specific to CF and EA-IRMS applications.

All other consumables and products such as reagents, capsules, glassware etc that can be used in both EA and EA-IRMS applications can be found in our main Organic Elemental CHN/O/S catalogue.

About the Company

Elemental Microanalysis grew from small beginnings almost 30 years ago as a micro-analytical laboratory to its current form as a leading manufacturer and supplier of consumables, supplies and other products for Elemental Analysers. We operate from our purpose-built factory and laboratory complex in Devon UK.

You learn a lot in 30 years - a lot about your products - how to make them and how to use them, a lot about your customers and their needs. We have been developing, refining and using products for elemental analysis since 1976 and have a unique in-depth knowledge of instruments from all manufacturers.

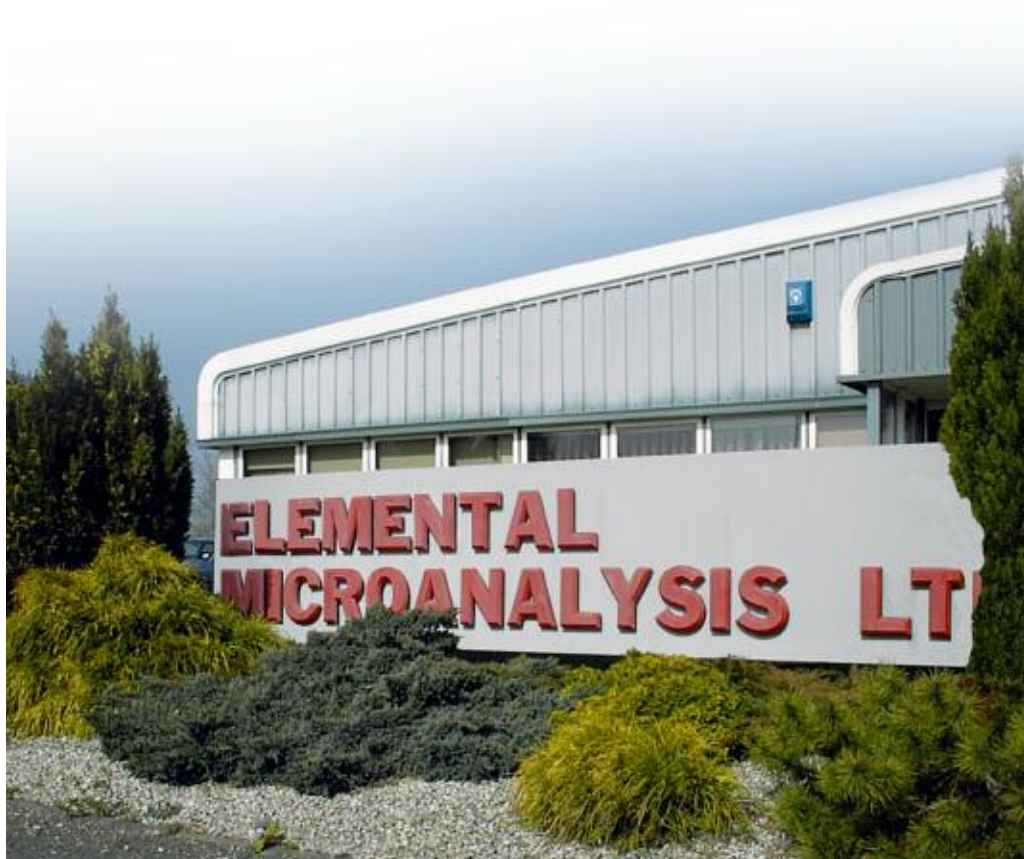
These days we offer the world's largest range of products for elemental analysers sending our products to customers across the globe.

We take great care with the quality of our products. The vast majority are manufactured in-house by our trained technicians within our ISO 9001:2000 accredited quality system. But we don't just make the products - we use them every day in our own analytical laboratory giving

us constant feedback on their performance. We do not compromise on quality and don't expect you to either. Our total satisfaction guarantee backs up our commitment to our product quality.

'Price is what you pay, value is what you get'. As the leading independent supplier of elemental analysis consumables you can achieve substantial savings in comparison to the prices charged by the original supplier of your instrument. But we know that you need more from a supplier than simply low prices. You need to buy with the confidence that your analysis will not be compromised by poor quality consumables and the knowledge that your supplier has all the resources to provide the full range of support that you expect.

We will always treat our customers with honesty and integrity. If we do make a mistake we don't try to hide it - we recognise it and put it right. We won't sell you short measure and we won't mislead you in any way. Our business is built on long-term relationships as our customers will testify - many have been with us for more than 20 years.





Configuration Guide

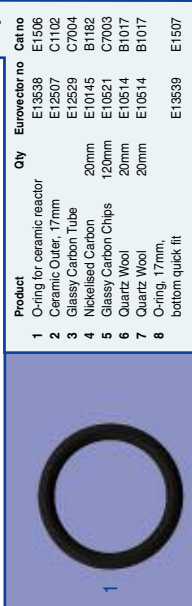
EA-IRMS Analysis

Note: See CHNOS catalogue for other EA configurations

OXYGEN

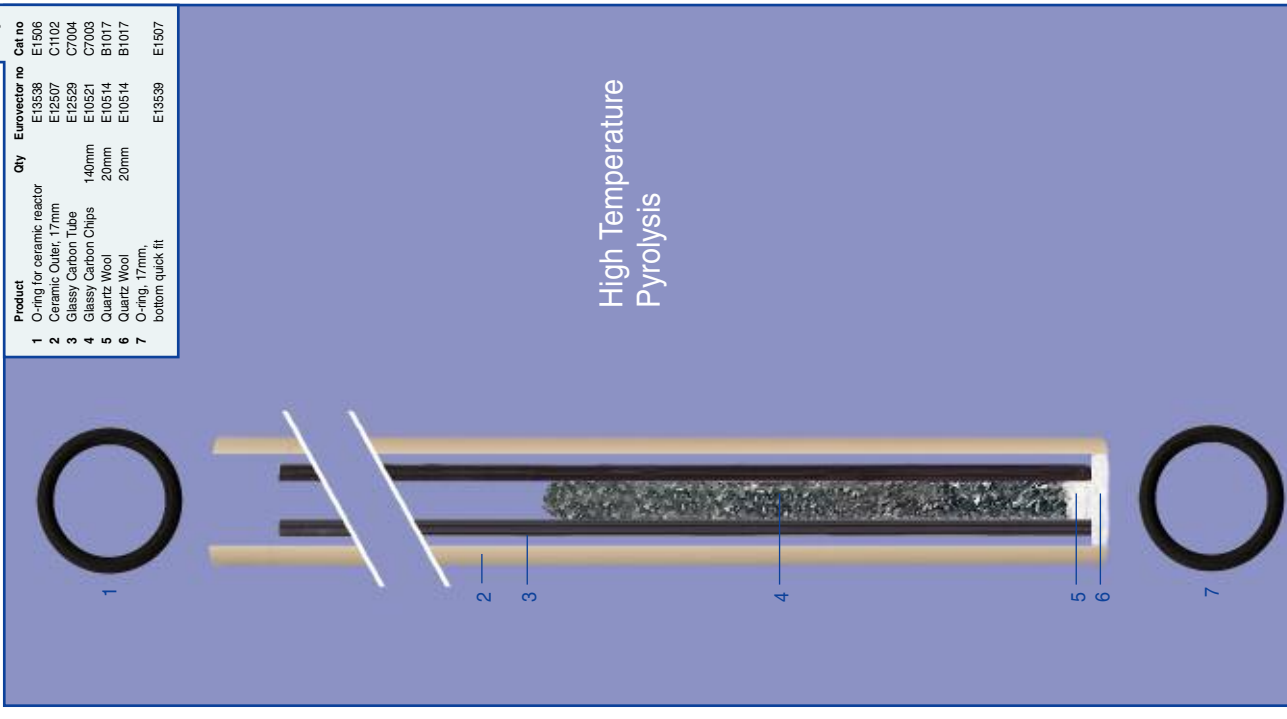
HYDROGEN

H IN LIQUIDS USING CHROME CATALYST



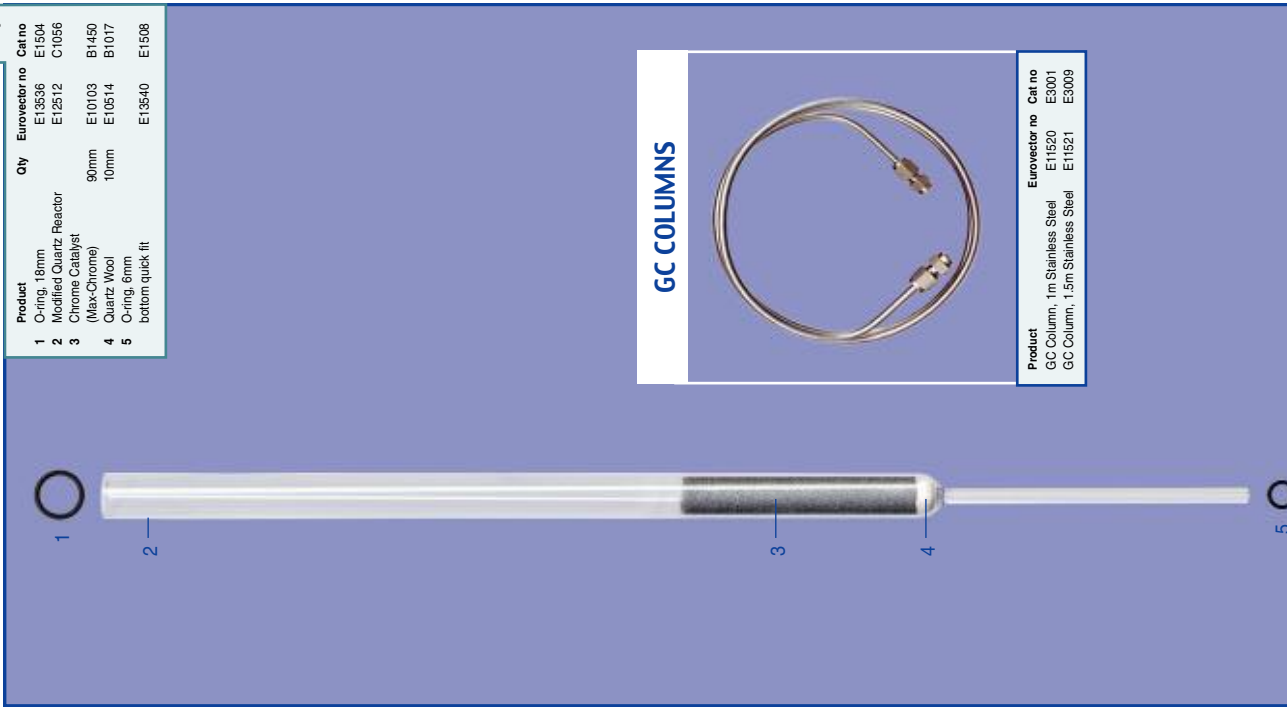
| Product | Qty | Eurovector no | Cat no |
|----------------------------------|-------|---------------|--------|
| 1 O-ring for ceramic reactor | | E13538 | E1506 |
| 2 Ceramic Outer, 17mm | | E12507 | C1102 |
| 3 Glassy Carbon Tube | | E12529 | C7004 |
| 4 Nickelated Carbon | 20mm | E10145 | B1162 |
| 5 Glassy Carbon Chips | 120mm | E10521 | C7003 |
| 6 Quartz Wool | 20mm | E10514 | B1017 |
| 7 Quartz Wool | 20mm | E10514 | B1017 |
| 8 O-ring, 17mm, bottom quick fit | | E13539 | E1507 |

High Temperature
Pyrolysis



| Product | Qty | Eurovector no | Cat no |
|----------------------------------|-------|---------------|--------|
| 1 O-ring for ceramic reactor | | E13538 | E1506 |
| 2 Ceramic Outer, 17mm | | E12507 | C1102 |
| 3 Glassy Carbon Tube | | E12529 | C7004 |
| 4 Glassy Carbon Chips | 140mm | E10521 | C7003 |
| 5 Quartz Wool | 20mm | E10514 | B1017 |
| 6 Quartz Wool | 20mm | E10514 | B1017 |
| 7 O-ring, 17mm, bottom quick fit | | E13539 | E1507 |

High Temperature
Pyrolysis



| Product | Qty | Eurovector no | Cat no |
|--------------------------------|------|---------------|--------|
| 1 O-ring, 19mm | | E13536 | E1504 |
| 2 Modified Quartz Reactor | | E12512 | C1056 |
| 3 Chrome Catalyst (Max-Chrome) | 90mm | E10103 | B1450 |
| 4 Quartz Wool | 10mm | E10514 | B1017 |
| 5 O-ring, 6mm bottom quick fit | | E13540 | E1508 |

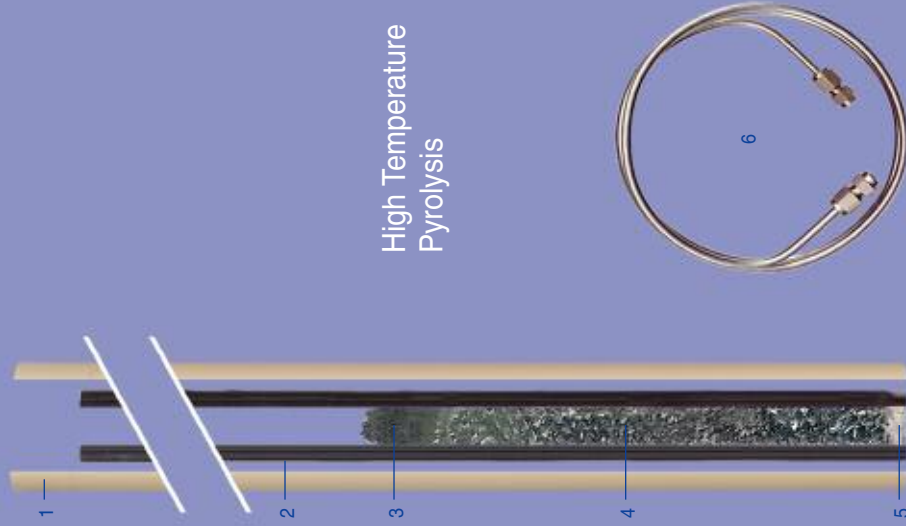
GC COLUMNS



| Product | Eurovector no | Cat no |
|---------------------------------|---------------|--------|
| GC Column, 1m Stainless Steel | E11520 | E3001 |
| GC Column, 1.5m Stainless Steel | E11521 | E3009 |

HEKATECH HT-0

| Product | Qty | Hekatech no | Car no |
|---------------------------------|-------|-------------|--------|
| 1 Ceramic Reactor | | HE 468110 | C1103 |
| 2 Glassy Carbon Tube | | HE 46860100 | C7004 |
| 3 Nickelised Carbon | 10mm | HE 33823800 | B1182 |
| 4 Glassy Carbon Chips | 135mm | HE 33823850 | C7003 |
| 5 Nickel Wool | 5mm | HE 3382500 | B1007 |
| 6 GC Column, 1m Stainless Steel | | HE 26007900 | E3001 |

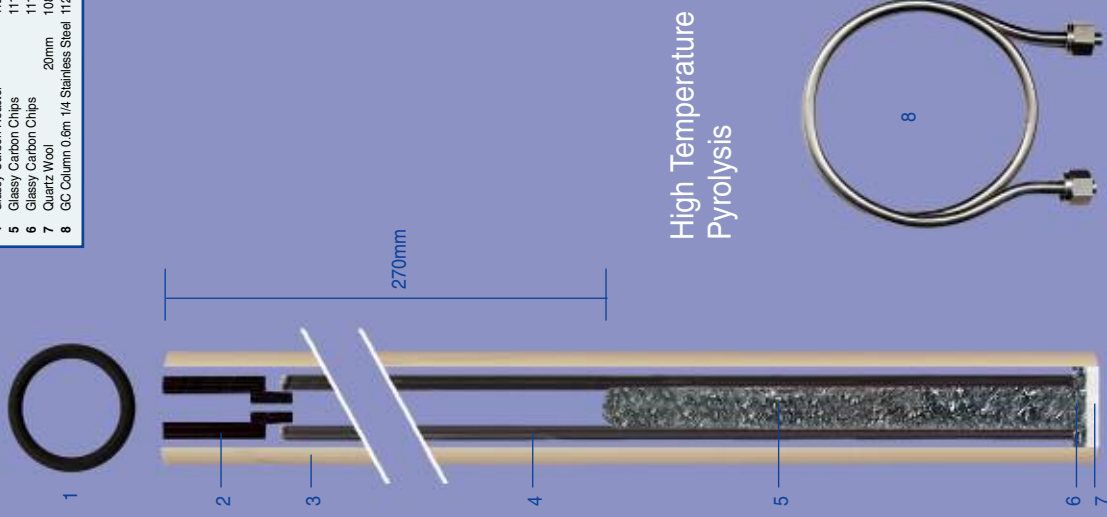


High Temperature
Pyrolysis

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LIQUID SAMPLES

| Product | Qty | ThermoF. no | Cat no |
|--------------------------------------|------|-------------|--------|
| 1 O-ring, Viton | | 1121120 | E6053 |
| 2 Graphite Tube | | 1132080 | C7011 |
| 3 Ceramic Tube | | 1121320 | C1101 |
| 4 Glassy Carbon Reactor | | 1121310 | C7001 |
| 5 Glassy Carbon Chips | | 1117400 | C7002 |
| 6 Glassy Carbon Chips | | 1117400 | C7002 |
| 7 Quartz Wool | 20mm | 1087770 | B1017 |
| 8 GC Column 0.6m 1/4 Stainless Steel | | 1121030 | E3035 |

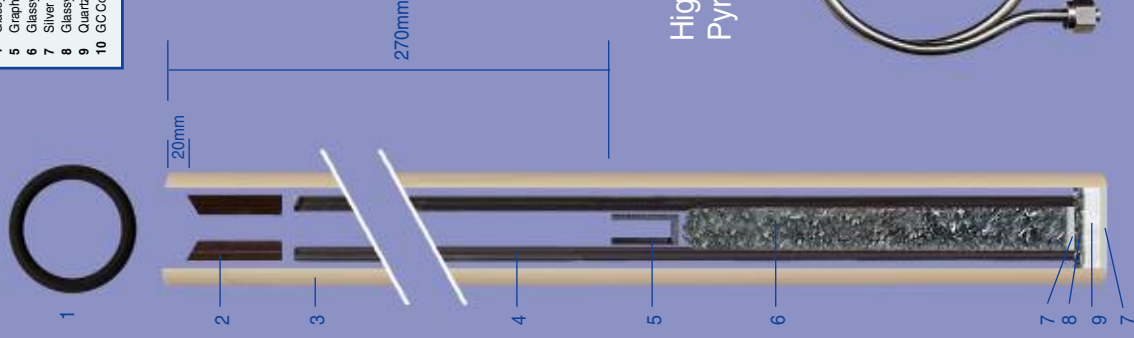


High Temperature
Pyrolysis

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SOLID SAMPLES

| Product | Qty | ThermoF. no | Cat no |
|---------------------------------------|------|-------------|--------|
| 1 O-ring, Viton | | 1121120 | E6053 |
| 2 Graphite Tube | | 1121951 | C7010 |
| 3 Ceramic Tube | | 1121320 | C1101 |
| 4 Glassy Carbon Reactor | | 1121310 | C7001 |
| 5 Graphite Crucible | | 1117332 | C7012 |
| 6 Glassy Carbon Chips | | 1117400 | C7002 |
| 7 Silver Wool | 5mm | 1117480 | B1119 |
| 8 Glassy Carbon Chips | | 1117400 | C7002 |
| 9 Quartz Wool | 20mm | 1087770 | B1017 |
| 10 GC Column 0.6m 1/4 Stainless Steel | | 1121030 | E3035 |



High Temperature
Pyrolysis

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Modified Lower Fitting

TC/EA Spares

| Product | Thermo No. | Cat no. |
|-----------------------------------|------------|---------|
| Replacement TC/EA Furnace Element | 35450010 | E4406 |
| Furnace Repair* | | E4407 |

*Furnace repair - a faulty furnace may be sent to Elemental Microanalysis for examination with a new element and/or thermocouple fitted if required.

Modified Lower Fitting for Improved Analysis of Waters

The adapter channels the helium flow up between the ceramic outer and down through the centre of the glassy carbon tube ensuring all water vapour is swept down into the reactive zone. Use of this fitting requires a different length glassy carbon inner from standard (see below).

| Product | Part no. |
|---------------------------------|-------------------|
| Adapter | E4405 |
| O-ring | E6054 (pack of 2) |
| Glassy carbon tube 12 x 9 x 453 | C7007 |



Consumables and Kits

Glassy Carbon Chips C7003



Nickel Wool B1007



| Product | Pack | Cat.no. |
|--|------|---------|
| Glassy carbon tube 12 x 7 x 356 | 1 | C7001 |
| Glassy carbon tube 12 x 9 x 453 for use with E4405 | 1 | C7007 |
| Glassy carbon tube 12 x 7 x 450 (one end closed with 2mm central hole) | 1 | C7005 |
| Glassy carbon tube 12 x 9 x 400 | 1 | C7004 |
| Glassy carbon chips (splinter powder) 3-4mm | 25g | C7002 |
| Glassy carbon chips (splinter powder) 2-3mm | 25g | C7003 |
| Graphite crucible 4.5 x 3.5 x 30mm | 1 | C7012 |
| Quartz wool (very pure, very fine) | 5g | B1017 |
| Quartz wool (very pure, very fine) | 10g | B1208 |
| Quartz wool (very pure, very fine) | 50g | B1102 |
| Nickel wool | 2g | B1007 |
| Silver wool | 10g | B1119 |
| Chrome catalyst (fine powder) | 100g | B1450 |
| Chrome catalyst (fine powder) | 25g | B1451 |
| Nickelised Carbon 30% Ni, granular 0.3-0.85mm | 5g | B1086 |
| Nickelised Carbon 40% Ni, granular 0.3-0.85mm | 5g | B1087 |
| Nickelised Carbon 50% Ni, granular 0.3-0.85mm | 5g | B1181 |
| Nickelised Carbon 30% Ni, granular 0.85-1.7mm | 5g | B1088 |
| Nickelised Carbon 40% Ni, granular 0.85-1.7mm | 5g | B1106 |
| Nickelised Carbon 50% Ni, granular 0.85-1.7mm | 5g | B1182 |

Graphite Crucible C7012



Glassy Carbon Tube



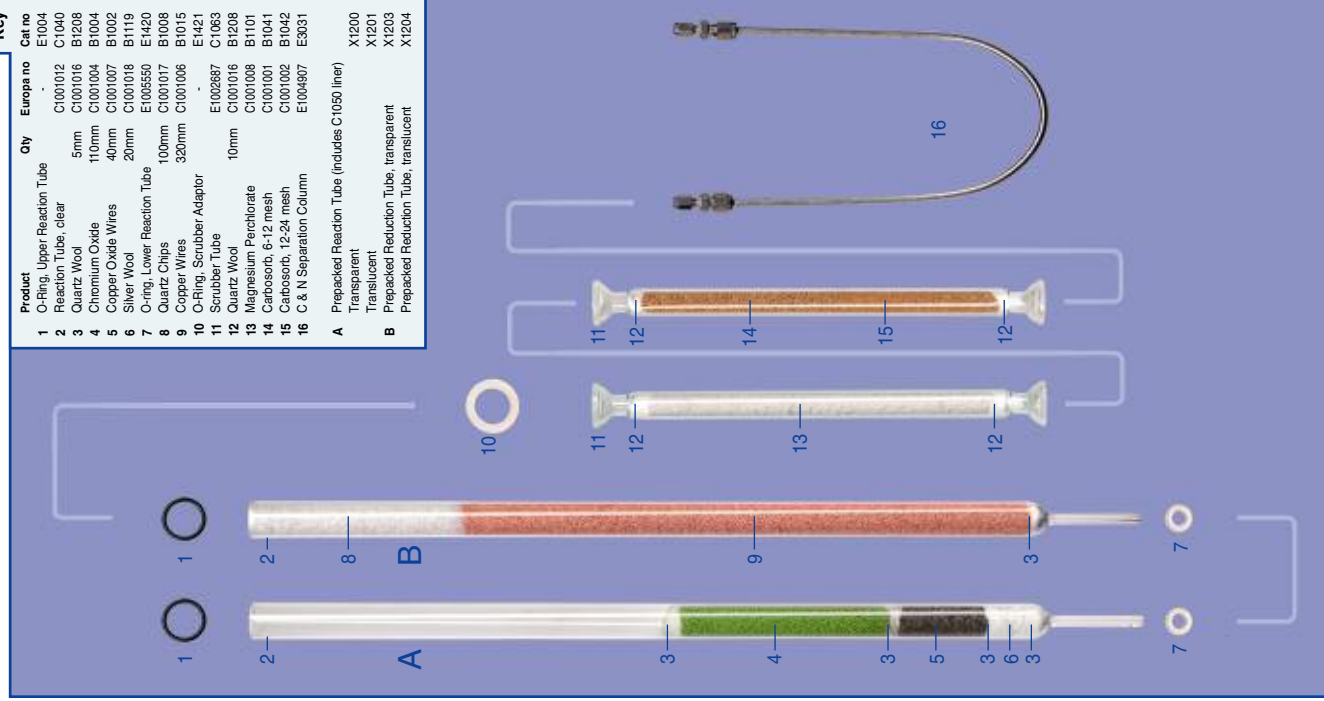
Nickelised Carbon B1181

Spares Kits for IsoPrime™ Elemental Analyser Modules

| Product | OEM | Cat.no. |
|--|---------|---------|
| EA-CN 1000 analysis kit | 6063056 | X3250 |
| EA-O and/or H for solid samples (High temperature) 1000 analyses | 6062979 | X3251 |
| EA-Sulphur 1000 analysis kit | 6062974 | X3252 |
| EA-Hydrogen kit for liquid samples (low temperature) | 6062977 | X3253 |
| EA-Oxygen kit for liquid samples (High temperature) | 6062978 | X3254 |

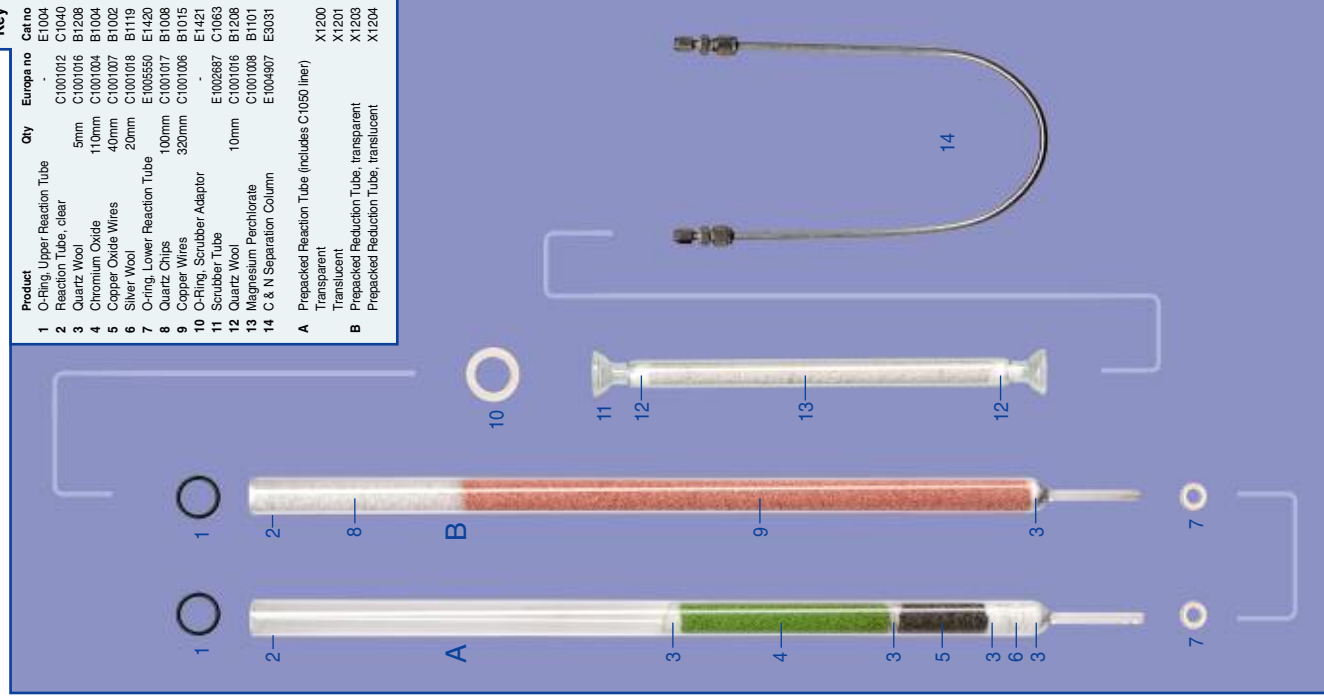
N DETERMINATION

| Product | Qty | Europa no | Cat no |
|---|-------|-----------|----------------------|
| 1 O-Ring, Upper Reaction Tube | | C100102 | E1004 |
| 2 Reaction Tube, clear | | C100102 | C1040 |
| 3 Quartz Wool | 5mm | C100106 | B1208 |
| 4 Chromium Oxide | 110mm | C100104 | B1004 |
| 5 Copper Oxide Wires | 40mm | C100107 | B1002 |
| 6 Silver Wool | 20mm | C100108 | B1119 |
| 7 O-ring, Lower Reaction Tube | 100mm | E100550 | E1420 |
| 8 Quartz Chips | 320mm | C100106 | B1015 |
| 9 Copper Wires | | C100107 | B1008 |
| 10 O-Ring, Scrubber Adaptor | | C100106 | E1421 |
| 11 Scrubber Tube | | E100287 | C1063 |
| 12 Quartz Wool | 10mm | C100106 | B1208 |
| 13 Magnesium Perchlorate | | C100108 | B1101 |
| 14 Carbosorb, 6-12 mesh | | C100101 | B1041 |
| 15 Carbosorb, 12-24 mesh | | C100102 | B1042 |
| 16 C & N Separation Column | | E1004907 | E3031 |
| A Prepacked Reaction Tube (includes C1050 liner) | | | X1200 Transparent |
| B Prepacked Reduction Tube, transparent | | | X1201 Translucent |
| B Prepacked Reduction Tube, translucent | | | X1203 Translucent |
| B Prepacked Reduction Tube, translucent | | | X1204 Translucent |



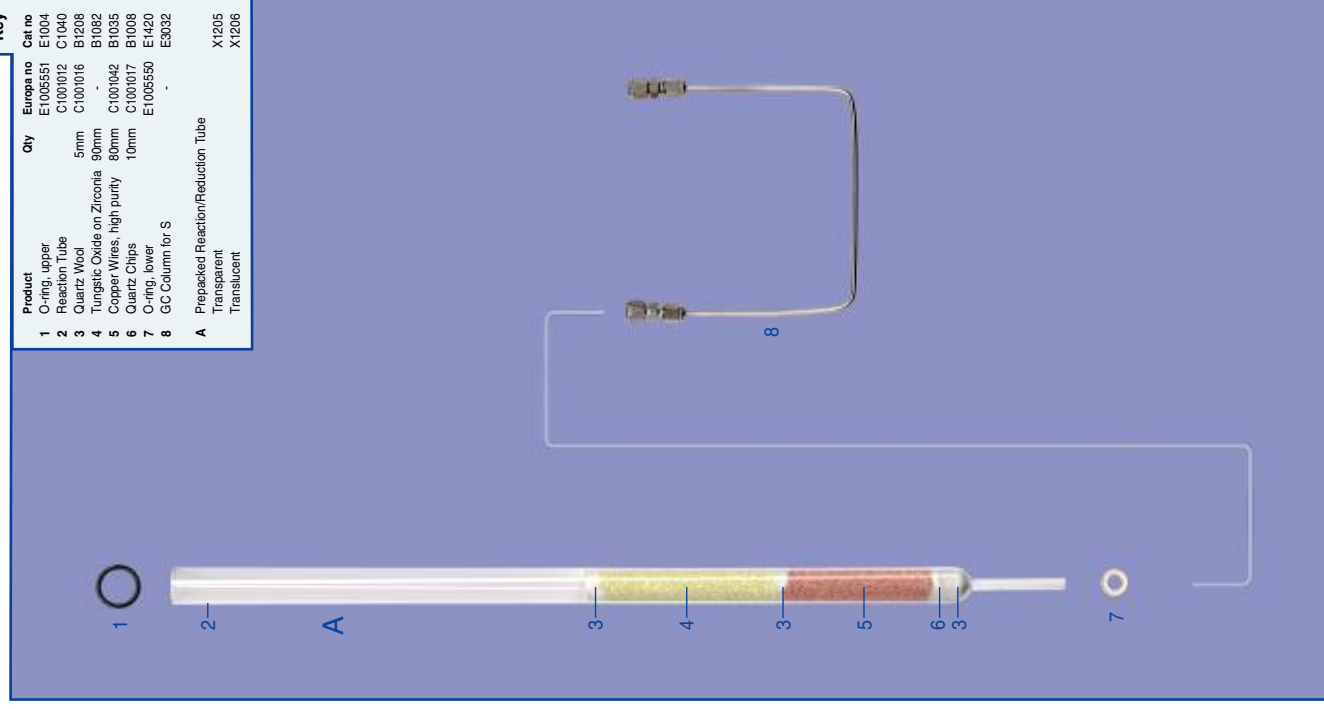
N & C DETERMINATION

| Product | Qty | Europa no | Cat no |
|---|-------|-----------|----------------------|
| 1 O-Ring, Upper Reaction Tube | | C100102 | E1004 |
| 2 Reaction Tube, clear | | C100102 | C1040 |
| 3 Quartz Wool | 5mm | C100106 | B1208 |
| 4 Chromium Oxide | 110mm | C100104 | B1004 |
| 5 Copper Oxide Wires | 40mm | C100107 | B1002 |
| 6 Silver Wool | 20mm | C100108 | B1119 |
| 7 O-ring, Lower Reaction Tube | 100mm | E100550 | E1420 |
| 8 Quartz Chips | 320mm | C100106 | B1015 |
| 9 Copper Wires | | C100107 | B1008 |
| 10 O-Ring, Scrubber Adaptor | | C100106 | E1421 |
| 11 Scrubber Tube | | E100287 | C1063 |
| 12 Quartz Wool | 10mm | C100106 | B1208 |
| 13 Magnesium Perchlorate | | C100108 | B1101 |
| 14 C & N Separation Column | | E1004907 | E3031 |
| A Prepacked Reaction Tube (includes C1050 liner) | | | X1200 Transparent |
| B Prepacked Reduction Tube, transparent | | | X1201 Translucent |
| B Prepacked Reduction Tube, translucent | | | X1203 Translucent |
| B Prepacked Reduction Tube, translucent | | | X1204 Translucent |



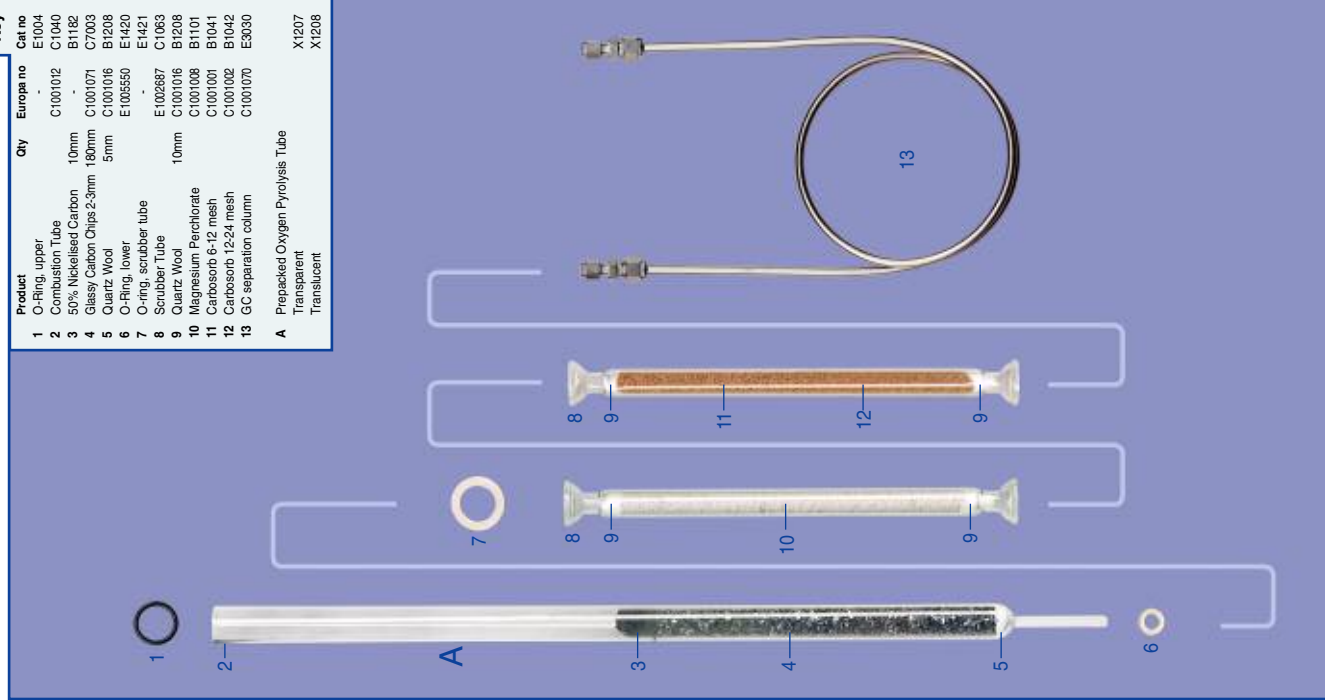
S DETERMINATION

| Product | Qty | Europa no | Cat no |
|--|------|-----------|----------------------|
| 1 O-ring, upper | | E100551 | E1004 |
| 2 Reaction Tube | | C100102 | C1040 |
| 3 Quartz Wool | 5mm | C100106 | B1208 |
| 4 Tungstic Oxide on Zirconia | 90mm | - | B1082 |
| 5 Copper Wires, high purity | 80mm | C100104 | B1035 |
| 6 Quartz Chips | 10mm | C100107 | B1008 |
| 7 O-ring, lower | | E100550 | E1420 |
| 8 GC Column for S | | - | E3032 |
| A Prepacked Reaction/Reduction Tube | | | X1205 Transparent |
| A Prepacked Reaction/Reduction Tube | | | X1206 Translucent |



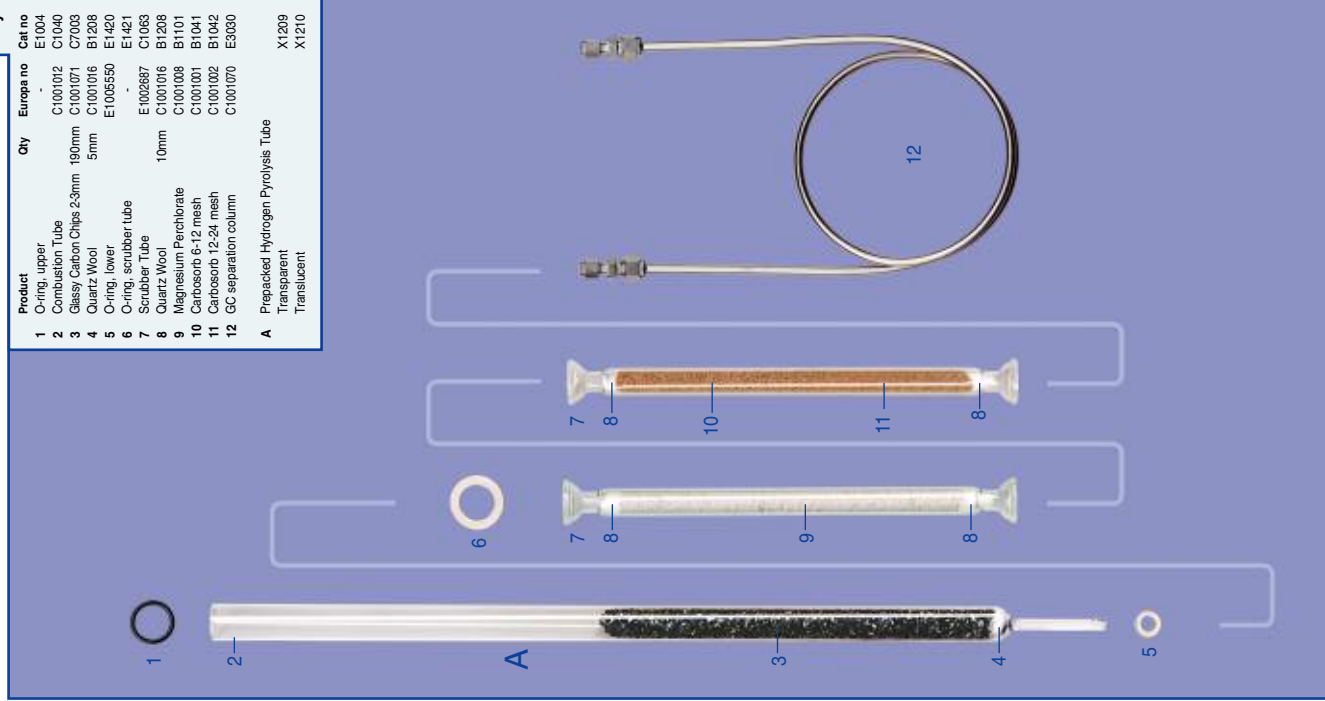
O PYROLYSIS

| Product | | Key | |
|--|---------------------------|-------|---------|
| 1 | 2 | Qty | Cat no |
| O-Ring, upper | Combustion Tube | - | E1004 |
| 50% Nickelised Carbon | Glassy Carbon Chips 2-3mm | 10mm | C1040 |
| Quartz Wool | Quartz Wool | 180mm | B1182 |
| O-Ring, lower | Scrubber Tube | 5mm | C7003 |
| Scrubber Tube | Quartz Wool | - | B1208 |
| Quartz Wool | O-Ring, upper | 10mm | E1420 |
| Magnesium Perchlorate | Combustion Tube | - | E1421 |
| Carbosorb 6-12 mesh | Glassy Carbon Chips 2-3mm | 10mm | E102837 |
| Carbosorb 12-24 mesh | Quartz Wool | 180mm | C1040 |
| GC separation column | Magnesium Perchlorate | 10mm | B1182 |
| | Carbosorb 6-12 mesh | - | B1041 |
| | Carbosorb 12-24 mesh | - | B1041 |
| | GC separation column | - | E3030 |
| A Prepacked Oxygen Pyrolysis Tube | | | X1207 |
| Transparent | | | X1208 |
| Translucent | | | |



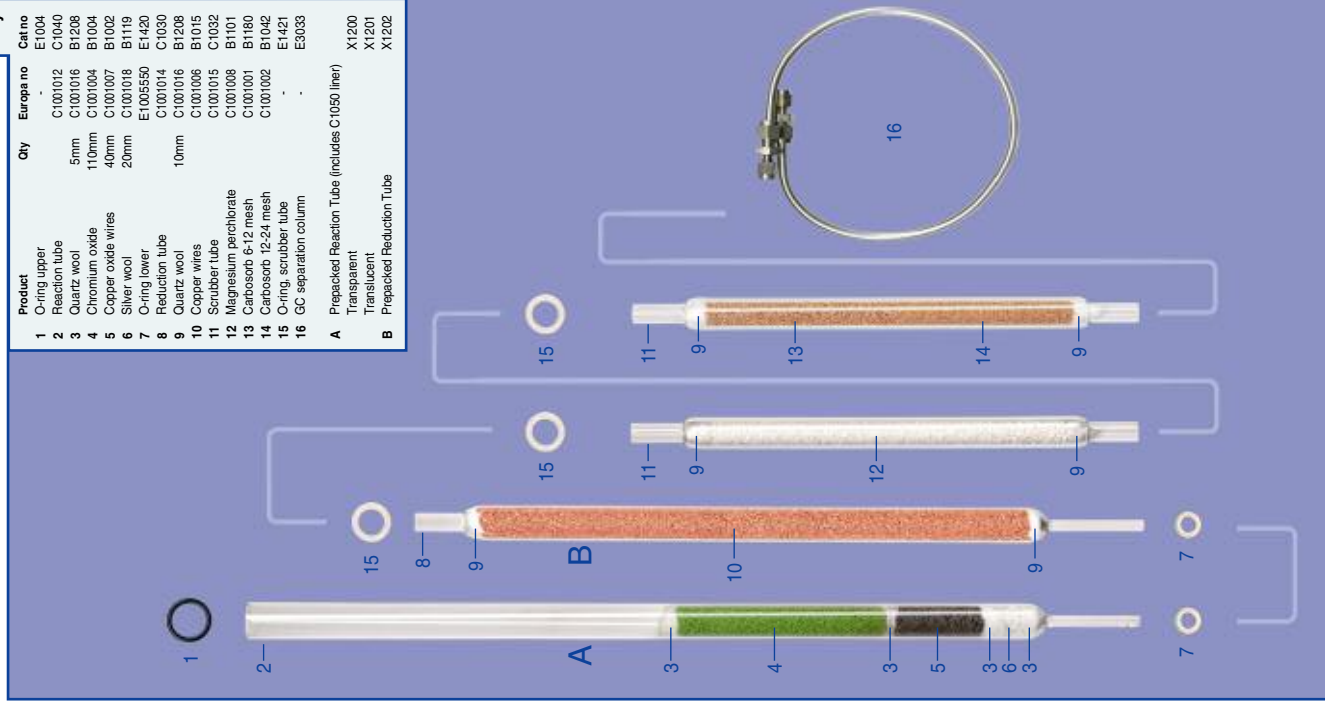
H PYROLYSIS

| Product | | Key | |
|--|---------------------------|-------|--------|
| 1 | 2 | Qty | Cat no |
| O-ring, upper | Combustion Tube | - | E1004 |
| Glassy Carbon Chips 2-3mm | Glassy Carbon Chips 2-3mm | 190mm | C1040 |
| Quartz Wool | Quartz Wool | 5mm | C7003 |
| O-ring, lower | Scrubber Tube | - | B1208 |
| Scrubber Tube | Quartz Wool | - | E1420 |
| Quartz Wool | Quartz Wool | 10mm | E1421 |
| Magnesium Perchlorate | Quartz Wool | 10mm | C1063 |
| Carbosorb 6-12 mesh | Magnesium Perchlorate | - | B1208 |
| Carbosorb 12-24 mesh | Carbosorb 6-12 mesh | - | B1101 |
| GC separation column | Carbosorb 12-24 mesh | - | B1041 |
| | GC separation column | - | E3030 |
| A Prepacked Hydrogen Pyrolysis Tube | | | X1209 |
| Transparent | | | X1210 |
| Translucent | | | |



EUROPA ROBOPREP CN

| Product | | Key | |
|---|-----------------------|-------|---------|
| 1 | 2 | Qty | Cat no |
| O-ring upper | Reaction tube | - | E1004 |
| Quartz wool | Quartz wool | 5mm | C1040 |
| Chromium oxide | Chromium oxide | 110mm | B1208 |
| Copper oxide wires | Copper oxide wires | 40mm | B1004 |
| Silver wool | Silver wool | 20mm | B1002 |
| O-ring, lower | O-ring, lower | - | B1119 |
| Reduction tube | Reduction tube | - | E1420 |
| Quartz wool | Quartz wool | 10mm | C1030 |
| Copper wires | Copper wires | - | B1208 |
| Scrubber tube | Scrubber tube | - | B1015 |
| Magnesium perchlorate | Magnesium perchlorate | - | C1032 |
| Carbosorb 6-12 mesh | Carbosorb 6-12 mesh | - | B1101 |
| Carbosorb 12-24 mesh | Carbosorb 12-24 mesh | - | B1180 |
| O-ring, scrubber tube | O-ring, scrubber tube | - | C100101 |
| GC separation column | GC separation column | - | C100102 |
| | | - | E1421 |
| | | - | E3033 |
| A Prepacked Reaction Tube (includes C1050 liner) | | | X1200 |
| Transparent | | | X1201 |
| Prepacked Reduction Tube | | | X1202 |



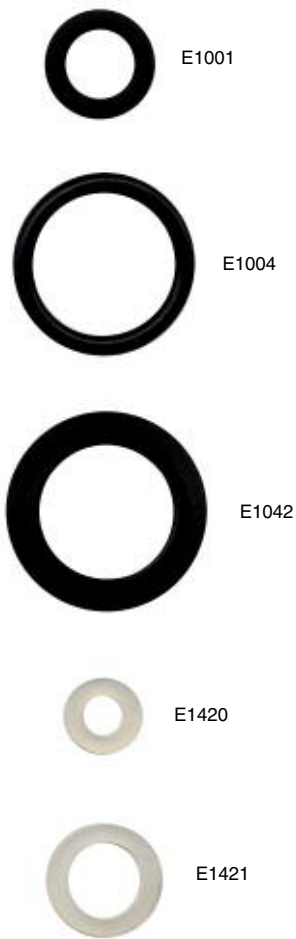
Europa O-rings

| Product | Pack | OEM | Cat no |
|-------------------------------------|------|----------|--------|
| O-ring Viton | 10 | | E1001 |
| O-ring Nitrile | 10 | | E1004 |
| Seal Viton Chamfered Square Profile | 5 | | E1042 |
| O-ring | 1 | E1005669 | E1420 |
| O-ring | 1 | E1002684 | E1421 |

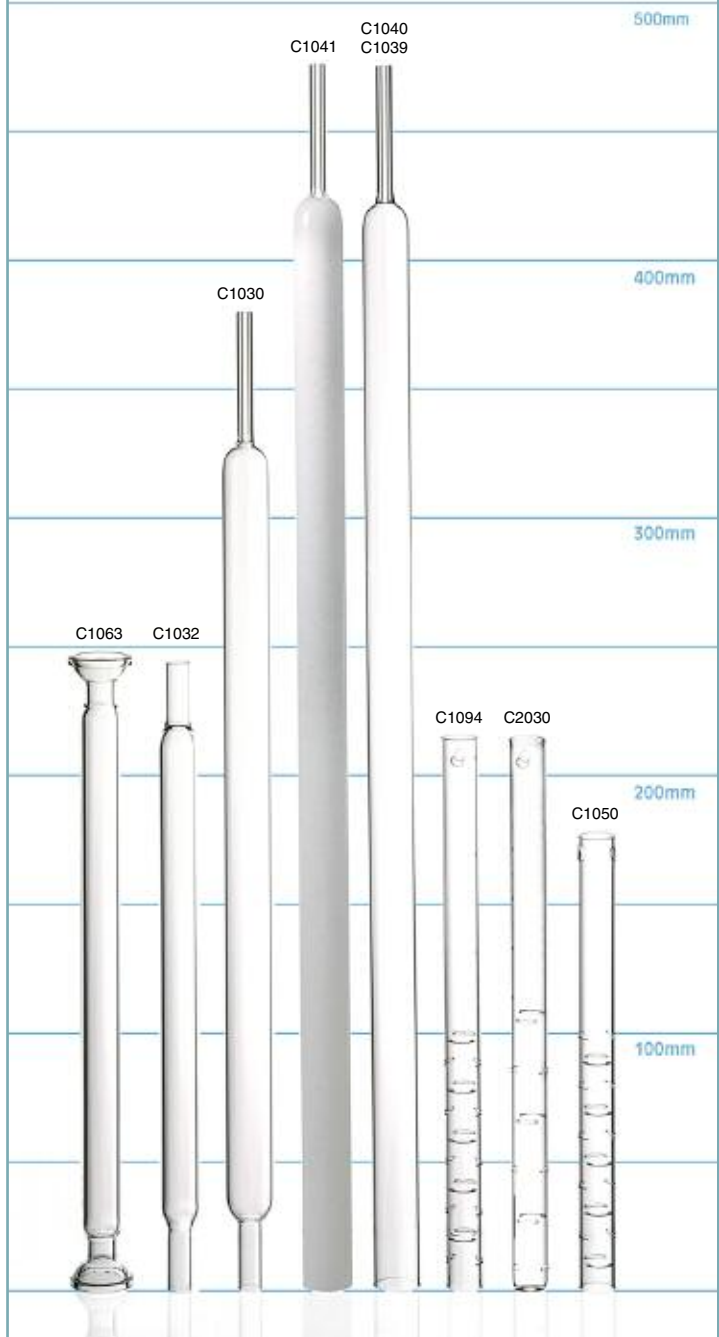
Europa Glassware

| Description | Pack | OEM | Cat no. |
|--|------|----------|---------|
| Reduction Tube | 1 | C1001014 | C1030 |
| Scrubber | 1 | C1001015 | C1032 |
| Reaction/Reduction Tube, transparent | 1 | C1001012 | C1040 |
| Reaction/Reduction Tube, translucent | 1 | C1001013 | C1041 |
| Reaction/Reduction Tube, transparent, heavy wall | 1 | - | C1039 |
| Sleeve insert 180mm (Open both ends) | 1 | C1001048 | C1050 |
| Scrubber | 1 | E1002687 | C1063 |
| Sleeve insert 220mm (Open both ends) | 1 | | C1094 |
| Sleeve insert 220mm (Closed one end) | 1 | | C2030 |

O-rings shown actual size



Pre-packed tubes for this instrument are available - please see configuration guide for details.



GC Combustion/Pyrolysis

Furnace Reaction Tubes

Ceramic

| Length | OD | ID | Cat no | Application |
|--------|--------|-------|--------|---------------|
| 630mm | 6mm | 0.7mm | C1110 | GVI |
| 600mm | 3mm | 0.5mm | C1111 | Thermo/GVI |
| 400mm | 1.6mm | 0.8mm | C1112 | Europa/PDZ |
| 300mm | 1.55mm | 0.6mm | C1077 | Europa/Thermo |

Quartz

| Length | OD | ID | Cat no | Application |
|--------|-----|-------|--------|-------------|
| 630mm | 6mm | 0.7mm | C1115 | GVI |
| 220mm | 6mm | 1.0mm | C1075 | Europa/PDZ |
| 300mm | 6mm | 1.0mm | C1076 | Europa |

Note: quartz and ceramic tubes can be supplied in different lengths.
Please contact us with your requirements.

Packing Materials

| Product | | Pack size | Cat no |
|-----------------------|------------------|-----------|--------|
| Copper Oxide Wires | 1% Pt 1%NiO | 5g | B1149 |
| Copper Oxide Wires | 3% Pt 1%NiO | 5g | B1151 |
| Copper Wire | 0.125mm diameter | 10m | D9101 |
| Platinum Wire | 0.125mm diameter | 1m | D9100 |
| Nickel Wire | 0.125mm diameter | 10m | D9102 |
| Copper Granules, fine | 0.05-0.2mm | 100g | B1108 |

Prepacked GC Reaction Tubes

| Length | OD | ID | Material | Packing | Cat no |
|--------|-------|-------|----------|-------------------------------------|--------|
| 600mm | 3mm | 0.5mm | Ceramic | Cu and Pt wires | X1500 |
| 400mm | 1.6mm | 0.8mm | Ceramic | Cu wires | X1501 |
| 400mm | 1.6mm | 0.8mm | Ceramic | Cu and Pt wires | X1502 |
| 400mm | 1.6mm | 0.8mm | Ceramic | Ni wires | X1503 |
| 630mm | 6mm | 0.7mm | Quartz | Copper Oxide wires 1% Pt, 1% NiO | X1504 |

Note: many combinations of wire types, numbers of strands etc. are possible.
Please contact us with your Prepacked GC Reaction Tube requirements.

Ceramic
Tube



Quartz Tube
C1076



Equilibration Reagents and Sundries

| Product | Pack | Cat no |
|--|-----------|--------|
| Platinum Catalysts sticks for HD equilibration | 50 sticks | B1452 |
| 5% Pt on Alumina -325 mesh powder | 10g | B1453 |
| Tapered glass inserts | 1000 | E2800 |

Isotope Reference Materials



Isotope Reference Materials from Elemental Microanalysis are traceable to primary standards issued by IAEA Vienna.

These materials are supplied with Certificates of Analysis.

Values shown are indicative and may vary slightly from batch to batch.

Actual values shown on certificate.



Reference Materials (RM)

| Cat no | Standard | Pack | %C | δC ¹³ | %N | δN ¹⁵ | %S | δS ³⁴ |
|--------|------------------|------|-----|------------------|------|------------------|------|------------------|
| B2151 | Sediment | 5g | 6.5 | -26 | 0.5 | +4 | 0.9 | +4 |
| B2153 | Soil | 5g | 1.5 | -27 | 0.15 | +7 | 0.03 | +5 |
| B2155 | Protein (Casein) | 5g | 47 | -27 | 14 | +6 | 0.9 | +6 |
| B2157 | Wheat Flour | 5g | 40 | -27 | 1.5 | +3 | 0.1 | -1 |
| B2159 | Sorghum Flour | 5g | 42 | -14 | 1.5 | +2 | 0.1 | +10 |

Uncertified Working Reference Materials

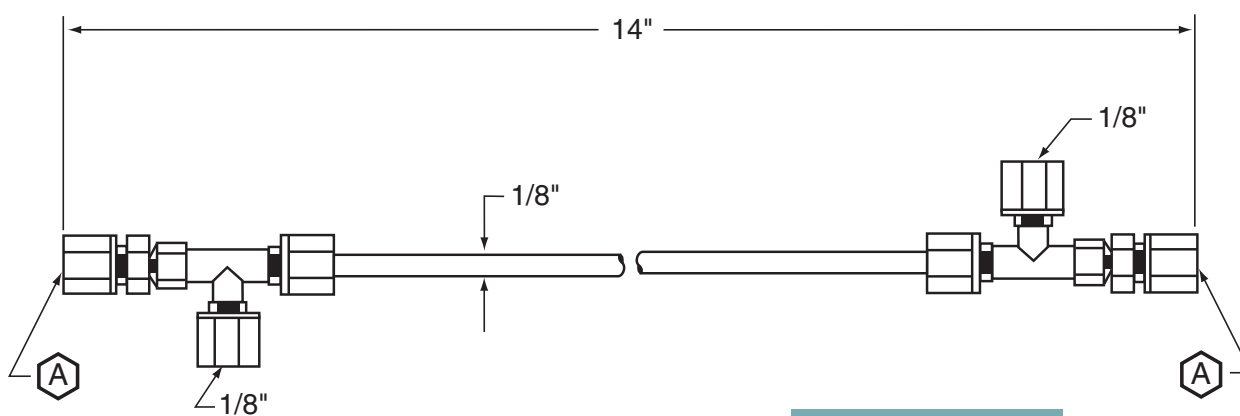
| Cat no | Standard | Pack | δC ¹³ | δN ¹⁵ |
|--------|-----------|------|------------------|------------------|
| B2172 | Olive Oil | 5g | -28.5 | - |
| B2174 | Urea | 5g | -45 | -0.8 |

Nafion Dryers[®]

Nafion[®] water removal dryers can be supplied as complete units or replacement inner elements.

Dryers and elements are supplied with 0.05" OD, 0.04" ID Nafion[®] tubing.

Dimensions



Complete Dryer

| Product | Cat no |
|--|--------|
| Stainless steel body, 1/8" end fittings (A) | E2810 |
| Stainless steel body, 1/16" end fittings (A) | E2811 |
| Fluoropolymer body, 1/8" end fittings (A) | E2812 |
| Polypropylene body, 1/8" end fittings (A) | E2813 |

Replacement Inner Elements

| Product | Cat no |
|---|--------|
| Elements, 12" long, 0.05" OD tubing, flanged end pieces | |
| Polypropylene ends | E2820 |
| Fluoropolymer ends | E2821 |
| Stainless steel ends | E2822 |

| Description | Part No |
|--|---------|
| 4.5ml Borosilicate Vial - round bottomed, 46 x 15.5mm | |
| Pack of 1000 | |
| Non-evacuated, unlabelled, seal + white cap | E2830 |
| Evacuated, unlabelled, seal + white cap | E2831 |
| Non-evacuated, labelled, seal + white cap | E2832 |
| Evacuated, labelled, seal + white cap | E2833 |

| | |
|---|-------|
| 5.9ml Soda Glass Vial - flat bottomed, 55 x 15.5mm | |
| Pack of 1000 | |
| Non-evacuated, unlabelled, seal + white cap | E2840 |
| Evacuated, unlabelled, seal + white cap | E2841 |
| Non-evacuated, labelled, seal + white cap | E2842 |
| Evacuated, labelled, seal + white cap | E2843 |

| | |
|---|-------|
| 12ml Soda Glass Vial - flat bottomed, 101 x 15.5mm | |
| Pack of 1000 | |
| Non-evacuated, unlabelled, seal + white cap | E2850 |
| Evacuated, unlabelled, seal + white cap | E2851 |
| Non-evacuated, labelled, seal + white cap | E2852 |
| Evacuated, labelled, seal + white cap | E2853 |

| | |
|--|-------|
| 12ml Borosilicate Vial - round bottomed, 101 x 15.5mm | |
| Pack of 1000 | |
| Non-evacuated, unlabelled, seal + white cap | E2860 |
| Evacuated, unlabelled, seal + white cap | E2861 |
| Non-evacuated, labelled, seal + white cap | E2862 |
| Evacuated, labelled, seal + white cap | E2863 |

| | |
|--|-------|
| 12ml Soda Glass Vial - flat bottomed, 101 x 15.5mm | |
| Silicone coated for C¹³ Breath Testing, Pack of 1000 | |
| Non-evacuated, unlabelled, seal + white cap | E2870 |
| Evacuated, unlabelled, seal + white cap | E2871 |
| Non-evacuated, labelled, seal + white cap | E2872 |
| Evacuated, labelled, seal + white cap | E2873 |

| | |
|---|-------|
| 12ml Borosilicate Vial - round bottomed, 104 x 15.5mm | |
| Pack of 1000 | |
| The new thread profile on this Exetainer® gives a very tight screw fit, and is designed to avoid any cap movement when samples are heated - eg. on a GasBench. | |
| Non-evacuated, unlabelled, seal + white cap | E2880 |
| Evacuated, unlabelled, seal + white cap | E2881 |
| Non-evacuated, labelled, seal + white cap | E2882 |
| Evacuated, labelled, seal + white cap | E2883 |

Caps are available in a variety of colours, also replacement caps and seals - please enquire for details.

Exetainer® is a registered trademark of Labco Ltd.



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- ThermoFinnigan **(Carlo Erba/Fison) EA1102/1104**
- ThermoFinnigan **(Carlo Erba/Fison) NA2500 N/NC/NCS**
- ThermoFinnigan **(Carlo Erba/Fison) NA1500 (Series 1&2)**

- Perkin Elmer **2400**
- Perkin Elmer **240 Series ABC**
- Perkin Elmer **440**
- Perkin Elmer **2410**

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- Leco® **CHN-800**
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23848, Oggiono (LC)

Tel: +39 0341260384 Fax: +39 0341574293
email: info@quantanalitica.com



Elemental Microanalysis Ltd
Hameldown Road
Okehampton Business Park
Exeter Road
Okehampton
Devon EX20 1UB
United Kingdom

Tel: +44 (0)1837 54446

Fax: +44 (0)1837 54544

E-mail: info@microanalysis.co.uk

www.microanalysis.co.uk