

 **Elemental
Microanalysis**



catalogue | A world of products for
Macro CN/CHN/CNS/N/protein analysis

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: enquiries@microanalysis.co.uk
Online: www.elementalmicroanalysis.com
Mail: Elemental Microanalysis Ltd
1 Hameldown Road
Okehampton
EX20 1UB
United Kingdom

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

Shipping Worldwide

We regularly ship directly to customers in all parts of the world, and our staff are highly experienced in shipping hazardous goods. Local dealers are available in many countries, – contact us for details.



www.elementalmicroanalysis.com

Available locally from:

Literature Available from Elemental Microanalysis

Catalogues, brochures and other literature are available electronically by downloading from the Download Documents page on our website; printed versions are available by e-mailing your request to enquiries@microanalysis.co.uk, or by filling out and returning the Literature Request Form on p 49–50 of this catalogue.

Catalogues

Our catalogues cover the following areas of elemental analysis:

- Micro CHNOS
- IRMS Supplement (2020)
- Inorganic
- Organic carbon/sulphur
- Nitrogen/protein
- Macro CN/CHN/CNS/N/protein (2021)
- Capsules (2021)

Our catalogues are also available to download from the website.



Product Sheets

Product Sheets are available for every instrument that we support. These cover all the common day-to-day items required to run your instrument. A complete list of all instruments we support can be found on p 49–50 of this catalogue. You can also e-mail your Product Sheet request to enquiries@microanalysis.co.uk.



Contract Analysis Service

Our UKAS accredited ISO 17025 laboratory offers analysis testing for organic, inorganic and stable isotopes. For additional details see p 48 of this catalogue, or visit our website, elementallab.co.uk, for full details of services and sample submission forms.



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The use of OEM part numbers is intended for convenience only, and does not imply that the products are of OEM origin. All Elemental Microanalysis products are guaranteed to be of high quality and are deemed to be suitable alternatives in the stated instruments. All OEM trademarks acknowledged.

Information in this catalogue is correct at time of printing, but may be subject to change. Please refer to our website for the latest information.

Introduction

About the Company

Elemental Microanalysis has grown from small beginnings over 40 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, warehouse and laboratory complex in Devon, UK.

You learn a lot in 40 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 pride in the quality of our products. All products that we manufacture in-house use our ISO 9001:2015 accredited quality system, implemented by our highly trained technicians. We don't just make CRMs and consumables – we use them every day in our UKAS 17025 accredited analytical laboratory (CHN CHNOS analysis), 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'.

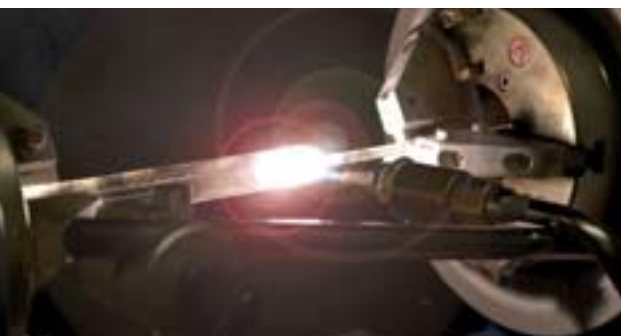
As the leading independent supplier of elemental analysis consumables we can offer substantial savings in comparison to the prices charged by the original supplier of your instrument. But we know that you need more from a supplier than simply low prices. You need to buy with the confidence that your 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 30 years.

Guaranteed quality

Our company's quality system is certified to ISO 9001:2015 by LRQA, we have an ISO/IEC 17025:2017 UKAS accredited Testing Laboratory, and we are an ISO/IEC 17034:2016 UKAS accredited Reference Materials Producer. Our confidence in our products allows us to offer you a total satisfaction guarantee: if our product does not perform at least as well as the brand of product you usually use, you can return it for a full refund.





'price is what you pay –
value is what you get'

Try our products – free of charge!

Try before you buy – we have sample packs available for most elemental analysers on the market. Just let us know the instrument you have and we will send you a trial quantity of 3 or 4 different consumables to try – free and with no obligation. Offer limited to one per customer.

Sales service

Our friendly sales staff will ensure that your order is despatched promptly and correctly. They can tell you about our stock levels, prices, shipping arrangements, or answer any other queries you may have.

Most orders are despatched within 24 hours of receipt. Rush orders receive special attention and are processed immediately. If you have an urgent problem or need priority despatch, please let us know.

Technical service

In this catalogue we have tried to provide the most accurate and complete information possible about our ever-expanding range. We realise, however, that you may require additional technical information.

For this reason we have technical specialists on hand to answer your questions and advise you on selecting the products best suited to your needs. We can also supply samples, and even develop new products for your particular application.

Design changes

We are constantly working on improving our products and these improvements may mean that some products differ from the descriptions in this catalogue. Our technical staff are happy to discuss any improvements made, and the resultant benefits. Check the website and join our mailing list to keep up-to-date with the latest products and developments.



Chemical supplies

Macro CN/CHN/CNS/N/protein analysis

Part No	Description	Pack	Elementar® part
B1090	Alumina (Aluminium Oxide) Spheres 3 to 6mm	50g	50 008 467
B1093	Alumina (Aluminium Oxide) Spheres 3 to 6mm	250g	
B1089	Alumina (Aluminium Oxide) Wool Fine	20g	05 000 086
B1304	Brass wool	50g	38.00-0124
B1270	Cerium Dioxide Fused Granular	100g	05 000 469
B1219	Cerium Dioxide Granular	100g	03 679 915
B1218	Copper Oxide Wires (Coarse) Coarse wires 6 x 0.65mm	250g	03 679 905
B1122	Copper Oxide Wires Fine Wires 4 x 0.5mm	250g	05 001 039
B1206	Copper Oxide Wires Fine Wires 4 x 0.5mm	1kg	
B1209	Copper Oxide Wires Fine Wires 4 x 0.5mm	3kg	
B1015M	Copper Wires Fine Wires Reduced 4 x 0.5mm	100g	05 000 699
B1049M	Copper Wires (3 x 50g) Fine Wires Reduced 4 x 0.5mm	150g	
B1091M	Copper Wires 3x100g Pack Fine Wires Reduced 4 x 0.5mm	300g	
B1083M	Copper Wires Pound Pack Fine Wires Reduced 4 x 0.5mm	454g	
◆ B1161	EMADrone Magnesium Perchlorate 501-171	454g	
⚠ B1115	EMASorb A Granular 0.8 to 1.6mm 14 to 25 mesh	200g	03 679 900
⚠ B1162	EMASorb A Granular 0.8 to 1.6mm 14 to 25 mesh	500g	03 679 900
B1204	Manganese Dioxide Sulphur Reduction in U-Tube	10g	05 000 880
B1246	Platinum Catalyst 0.5% Pt	30g	
B1196	Platinum Catalyst 5% Pt	30g	03 002 262
B1308	Platinum Catalyst 5% Pt	150g	03 002 262
B1305	Post combustion reagent for exceed® instruments	500g	16.02-0056
⚠ B1297	Sicapent	30g	03960352
⚠ B1197	Sicapent (2.8L)	500g	03 960 352
B1214	Silica (Quartz) Chips Granular 1 to 2mm	100g	03 679 907
B1215	Silica (Quartz) Chips Granular 2 to 4mm	50g	05 000 900
B1216	Silica (Quartz) Chips Granular 2 to 4mm	100g	
B1255	Silica (Quartz) Wool Discs 24mm Diameter	25	
B1208	Silica (Quartz) Wool Very Fine	10g	03 679 908
B1276	Silica (Quartz) Wool Very Fine	15g	
B1102	Silica (Quartz) Wool Very Fine	50g	0240-1118
B1231	Silver Wool 0.05mm Fine Wire	50g	22 131 365
B1404	THAM Tris (hydroxymethyl) aminomethane	80g	
B1217	Tungsten (VI) Oxide Granular	60g	11.02-0008
B1299	Tungsten (VI) Oxide Granular	300g	11.02-0008
B4014	Tungsten (VI) Oxide Powder	90g	11.02-0024
B4013	Tungsten (VI) Oxide Powder Fine Powder	25g	11.02-0017
B1205	Tungsten Granulated	500g	12.00-0040
B1210	Tungsten Granulated (Bulk)	2.5kg	12.00-0040
B1203	Tungsten Kit Complete – 500g of Tungsten Granulated +25 Gauzes		12.01-0045
B1406	Zinc granules	50g	29.00-0092
B1407	Zinc granules	200g	29.00-0092



Silver wool 0.05mm fine wire
B1231



Tungsten (VI) oxide granular
B1217, B1299



Copper wires,
fine, reduced
B1015M



⚠ These products are classified as hazardous for shipping

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Zinc granules
B1406



Silica (quartz) wool discs,
24mm diameter - pack of 25
B1255

Platinum catalyst 5% Pt
B1196



Tungsten (500g in kit)

Stainless gauzes
(25 in kit)



Tin foil squares, standard weight
50 x 50mm D1115

Part No	Description	Pack	Elementar® part
C3058	Ceramic Crucible	100	25.00-1123
C3064	Metal crucibles	100	03 002 278
D1117	Rapid Caps	190	05 001 013
D2084	Silver Squares 35 x 35mm	100	
D9001	Tin Foil Cones Standard Weight	100	05 000 429
D9010	Tin Foil Cones Standard Weight	1500	
D9002	Tin Foil Cones, Large, Standard Weight	100	
D9003	Tin Foil Cones, Large, Standard Weight	400	
D1116	Tin Foil Squares Standard Weight 37 x 37mm	400	12.01-0032
D1115	Tin Foil Squares Standard Weight 50 x 50mm	100	12.01-1012/4
D1118	Tin Foil Squares Standard Weight 50 x 50mm	500	
D1119	Tin Foil Squares Standard Weight 50 x 50mm	1500	

We support the following Macro analysers from Elementar®:

- Elementar® rapid N**
- Elementar® rapid N cube**
- Elementar® rapid N exceed®**
- Elementar® rapid MAX N exceed®**
- Elementar® soli TOC cube**
- Elementar® vario MAX**
- Elementar® vario MAX cube**
- Elementar® vario MACRO**
- Elementar® vario MACRO cube**

Please contact us for a Product Sheet specifically for your analyser, or use OEM Search on our website and select the analyser you require.

Metal crucibles
C3064



Ceramic crucible
C3058



For our extensive range of reference materials, see pages 23–26.

Do you want to find a product using the manufacturer part number?
— Use the cross reference lists, beginning on page 39, or the OEM Search on our website.



Large tin foil cones
standard weight
D9002

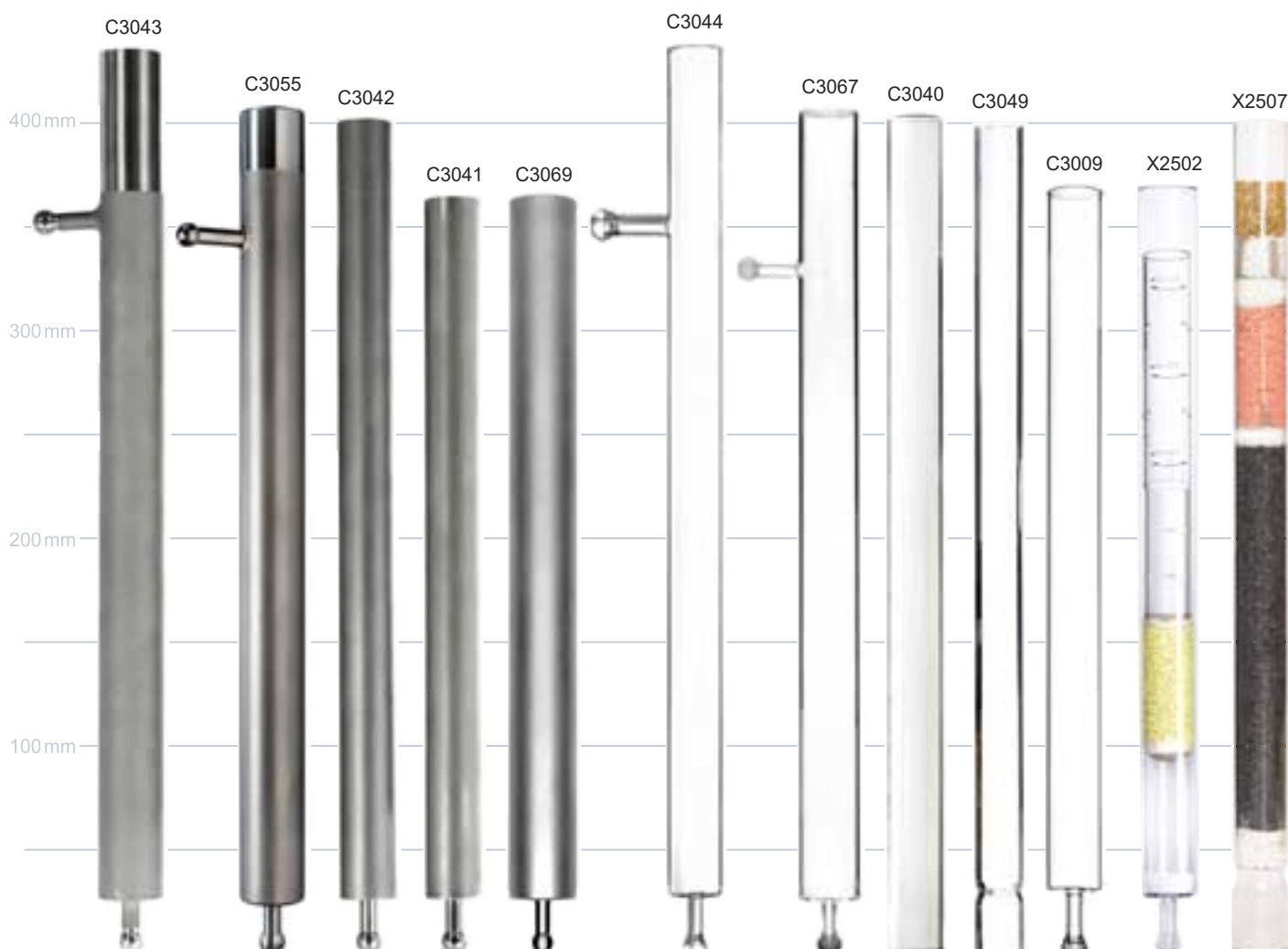


Tin foil cones
standard weight
D9001

Quartz, glassware & furnace tubes

Macro CN/CHN/CNS/N/protein analysis

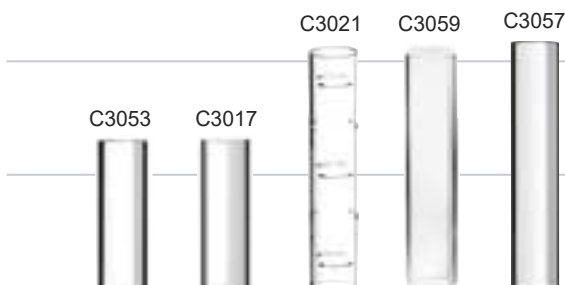
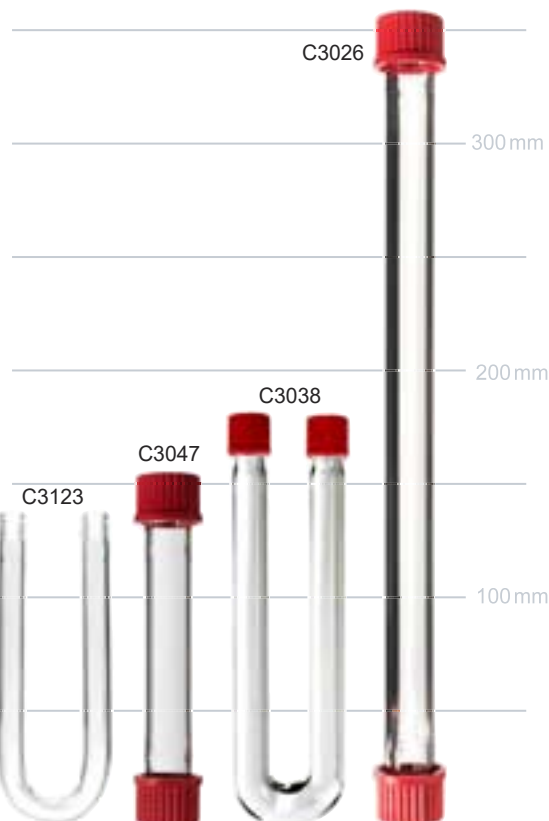
Part No	Description	Pack	Elementar® part
C3065	Ash crucible rapid N exceed®	1	16.00-1104
C3063	Ash Finger 60mm Stainless Steel	1	11001363/4
C3062	Ash Finger 90mm Stainless Steel	1	11.45-1005/4
C3030	Ash Finger Ceramic rapid N	1	05 000 087
C3018	Ash finger - quartz	1	11.00-1170/4
C3024	Ash finger - quartz closed end	1	11.02-1036/4
C3070	Ash finger - quartz closed end, pack of 10	10	11.02-1036/4
C3060	Ash Finger quartz pack of 10	10	11.00-1170/4
C3031	Ash Finger Stainless Steel	1	12.00-1087/4
C3009	Combustion/Reduction Tube	1	11.00-1150/4
C3044	Combustion tube quartz vario MAX	1	25.00-1028
C3067	Combustion tube quartz, vario MAX cube	1	29.00-1078
C3041	Combustion Tube S/S (from SN 12991001)	1	12.01-1036/4
C3069	Combustion tube stainless steel Rapid N exceed®	1	16.02-0036
C3043	Combustion Tube stainless steel vario MAX	1	25.00-1030
C3042	Post Combustion Tube	1	25 00-1048
X2502	Prepacked CNS/CHNS Reaction Tube	1	
X2507	Prepacked reduction tube exceed® instruments quartz	1	16.02-0055
C3049	Quartz reduction tube 29mm modified with constriction	1	
C3040	Quartz Reduction/Tungsten Tube 29mm (from SN 12991001)	1	25.00-0017
C3055	SS combustion tube vario MAX cube	1	29.00-1030



Macro CN/CHN/CNS/N/protein analysis

Quartz, glassware & furnace tubes

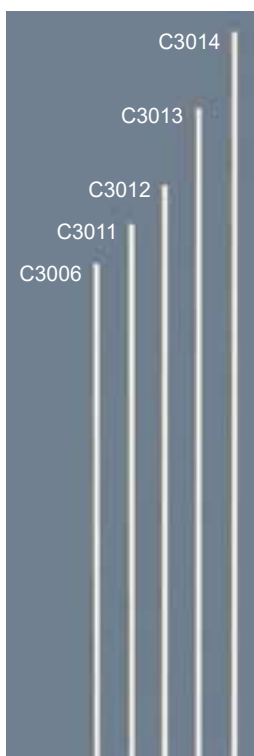
Part No	Description	Pack	Elementar® part
C3022	Connecting tube silica 65mm (inc. O-rings)	1	11.00-1331/4
C3025	Connecting tube silica 130mm (inc. O-rings)	1	25.20-1003
C3008	Drying Guard Tube Borosilicate Elementar	1	22 160 200/4
C3026	Drying tube 348 mm GL25	1	16.00-1012
C3047	Drying tube short	1	16.00-1037
C3066	Drying tube with GL14 end caps	1	22 160 204/4
C3045	Filter tube	1	50 009 375/4
C3021	Protection tube 105mm	1	11001317/4
C3059	Protection tube 105mm (alt to C3021 without slits)	1	11001317/4
C3053	support rod, reduction tube 65mm	1	11.00-1364/41
C3057	support rod combustion tube 110mm	1	15.40-1002
C3017	Support tube 65mm	1	11 001 172/4
C3123	U Tube GL14	1	23.00-0080
C3038	U-Tube Large Complete with GL18 Caps	1	34.00-1339/4



Part No	Description
X3022	Prepacked sicapent filled C3008 trap
X3023	Prepacked sicapent filled C3038 U-tube trap
X3024	Prepacked sicapent filled C3026 trap
X3025	Prepacked sicapent filled C3047 trap
X3027	Prepacked ½ filled sicapent C3038 U-tube trap & separate bottle of Emasorb filling
X3028	Prepacked ½ filled sicapent C3047 trap & separate bottle of Emasorb filling
X3029	Prepacked ½ filled sicapent C3026 trap & separate bottle of Emasorb filling

These products are classified as hazardous for shipping

Hardware for furnace tubes


 Distance ring
C3048

 Wire mesh rondel 22mm
C3036

Part No	Description	Pack	Elementar® part
C3048	Distance ring	1	12.01-1032/4
C3006	Oxygen lance 130mm	1	
C3006-10	Oxygen lance 130mm pack of 10	10	
C3011	Oxygen lance 140mm	1	05 000 088
C3011-10	Oxygen lance 140mm pack of 10	10	05000088
C3012	Oxygen lance 150mm	1	05000354
C3013	Oxygen lance 170mm	1	05 000 658
C3014	Oxygen lance 190mm	1	11.45-1012/4
E2250	Stainless Steel Gauze Spacers Tungsten System	25	12.01-1008/4
E2251	Stainless Steel Gauze Spacers (Bulk Pack)	100	
C3035	Wire Mesh Ronde 18mm	1	12.00-1005/4
C3035-10	Wire Mesh Ronde 18mm pack of 10	10	12.00-1005/4
C3036	Wire Mesh Ronde 22mm	1	12.00-1004/4
C3036-10	Wire Mesh Ronde 22mm pack of 10	10	12001004/4
C3046	Wire Mesh Ronde 26.8mm	1	50 008 449/4
C3046-10	Wire Mesh Ronde 26.8mm pack of 10	10	50 008 449/4

O-rings & seals

Macro CN/CHN/CNS/N/protein analysis

O-rings are shown actual size

Part No	Description	Pack	Elementar® part
E1049	Seal Viton Rubber for oxygen lances - 10 x 3mm seals	10	05 000 247
E1050	Seal for Oxygen lance viton rubber	1	05 000 247
E1050-10	Seal for Oxygen lance viton rubber pack of 10	10	05 000 247
E1054	Quadring Viton Rubber, 7.65mm x 1.78mm	1	05 000 353
E1054-10	Quadring Viton Rubber, 7.65mm x 1.78mm pack of 10	10	05 000 353
E1066	O-ring Silicone Rubber, 25mm x 2mm	1	03 654 629
E1067	O-ring Viton Rubber, 4.5mm x 1.5mm	1	05 000 249
E1067-10	O-ring Viton Rubber, 4.5mm x 1.5mm pack of 10	10	05 000 249
E1069	O-ring Viton Rubber, 7.5mm x 2.5mm	1	05 000 416
E1069-10	O-ring Viton Rubber, 7.5mm x 2.5mm pack of 10	10	05 000 416
E1070	O-ring Viton Rubber, 9.19mm x 2.62mm	1	05 000 359
E1070-10	O-ring Viton Rubber, 9.19mm x 2.62mm pack of 10	10	05 000 359
E1072	O-ring Viton Rubber, 18mm x 2mm	1	05 000 096
E1073	O-ring Viton Rubber, 20mm x 2mm	1	03 654 627
E1073-10	O-ring Viton Rubber, 20mm x 2mm pack of 10	10	03 654 627
E1074	O-ring Viton Rubber, 22mm x 2mm	1	05 000 095
E1074-10	O-ring Viton Rubber, 22mm x 2mm pack of 10	10	05 000 095
E1076	O-ring Viton Rubber, 24mm x 3mm	1	05 000 371
E1077	O-ring Viton Rubber, 38mm x 2.5mm	1	05 000 372
E1082	O-ring Silicone Rubber, 4mm x 4mm	1	03 654 701
E1083	O-ring Silicone Rubber, 4.5mm x 1.5mm	1	05 000 248
E1085	O-ring Silicone Rubber, 6mm x 2mm	1	03 653 118
E1087	Kalrez O-ring, black, 7.59 x 2.62 mm	1	05 001 302
E1171	O-ring for gripper arm, 7mm x 1.5mm	1	03 002 395
E1172	O-ring, 32mm x 3mm	1	03 002 268
E1173	O-ring, 5mm x 1.5mm	1	05 000 425
E1175	O-ring, 16mm x 3mm	1	05 000 568
E1175-10	O-ring, 16mm x 3mm pack of 10	10	05 000 568
E1176	O-ring Viton, 4mm x 2mm	1	03 002 850
E1555	Shaft Seal – gripper arm holder	1	03 002 607
E1556	O-ring for Spring Flange, 18mm x 2.5mm	1	05 001 053



E1555



E1556



E1049





Macro multi-purpose spoon/spatula 215 mm E2002

Stainless steel Sicapent ladle with 300mm handle E2001

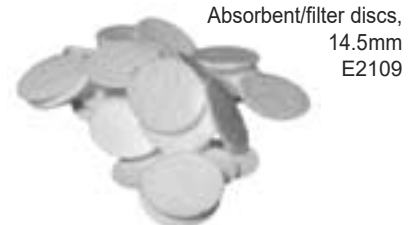
Part No	Description	Pack	Elementar® part
E2109	Absorbent/Filter Discs 14.5mm	100	
E2520	Brass Brush	1	05 001 432
X6000	Consumable kit - vario MAX CHN 2000 samples Kit		25.00-5042
X6002	Consumable kit for 4000 solid sample analysis, vario MACRO cube (CHN CN N)		20.00-5013
E2516	Cotton Wool	50g	05 001 715
E1174	Filter Diameter 18mm	1	03 002 399
E1174-10	Filter Diameter 18mm, pack of 10	10	03002399
E2016	Forceps Stainless Steel Curved Points	1	03 001 248
E2538	GL14 Blanking Cap Red	2	
E2539	GL18 Blanking Cap Red	2	
E2517	GL14 screw cap	1	05 000 049
E2518	GL18 screw cap	1	05 000 044
E2519	GL25 screw cap	1	05 000 046
E2505	Gloves Pair	pair	05 000 094
E2515	Gripper Arm With O-rings for vario MAX N/CN/CHN	1	25.00-0029
E2523	Gripper arm with O-rings for vario MAX cube all modes	1	29.00-0029
E2522	Gripper arm with O-rings For vario MAX in CNS mode	1	25.20-0004
E2002	Macro multi-purpose spoon/spatula 215mm	1	
E2535	Manual press 7mm pellet diameter	1	41.01-0003/4
E2536	Manual press 9mm pellet diameter	1	41.01-0004/4
E2537	Manual press 10.5mm pellet diameter	1	41.01-0002/4
E2521	Manually operated drill	1	11.00-0500/4
E2527	Powder filling funnel (large) with silicone tubing outlet	1	
E2526	Powder filling funnel (small) with silicone tubing outlet	1	34.00-0051/4
E2252	Scoop for Tungsten (Elementar reduction tubes) for use with B1203/B1205/B1210 part numbers	1	
E2533	Set of ball valve half shells 14mm for vario MACRO cube	1 set	21.00-0008
E2531	Set of ball valve half shells Rapid N (non-cube)	1 set	12.01-0057
E2530	Set of ball valve half shells vario EL, vario Macro (non-cube)	1 set	11.00-0053
E2039	Snoop Leak Detection Fluid 236ml/8 fluid oz	236ml	
E2291	Spatula Micro Spoon Formed Bent	1	03 950 005
E2001	Stainless Steel Sicapent Ladle with 300mm handle	1	
E2240	Vacuum Grease	50g	03 968 006



Set of ball valve half shells E2530



Gripper arm with O-rings E2523



Absorbent/filter discs, 14.5mm E2109



Manually operated drill E2521



Manual press 10.5mm pellet diameter E2537

Chemical supplies

Macro CN/CHN/CNS/N/protein analysis

Part No	Description	Pack	Gerhardt part
B1306	Absorbant for water absorption trap (Orange to yellow indicator)	100g	14-0219
B3015	Chromosorb W 30-60 mesh Acid Washed	10g	14-0022, 7724
B3017	Chromosorb W 30-60 mesh Acid Washed	25g	14-0022, 7724
B1352	Copper for Dumatherm	480g	14-0046, 14-0246
▼ B1154	EMASorb A Granular 0.8–1.6mm 14–25 mesh CO ₂ absorbant	100g	
▼ B1153	EMASorb B Granular 1.6 to 3mm 7–14 mesh CO ₂ absorbant	100g	
B1301	HT Catalyst	100g	14-0011, 7711
B1302	LT Catalyst	50g	14-0014, 7714
◆ B1019	Magnesium Perchlorate Granular 0.7–1.2mm H ₂ O absorbant	25g	14-0013
◆ B1101	Magnesium Perchlorate Granular 0.7–1.2mm H ₂ O absorbant	100g	14-0219, 7713
B1356	Quartz wool pads large, 2 packs of 30 discs	60	14-0275
B1357	Quartz wool pads mixed, pack of 30 large & 30 small discs	30+30	14-0225
B1355	Quartz wool pads small, 2 packs of 30 discs	60	14-0274
B1017	Silica (Quartz) Wool Very Fine	5g	
B1208	Silica (Quartz) Wool Very Fine	10g	14-0043, 7712
B1102	Silica (Quartz) Wool Very Fine	50g	

Copper for Dumatherm
B1352Quartz wool pads mixed
B1357
 These products are classified as hazardous for shipping

Capsules, foils & crucibles

Part No	Description	Pack	Gerhardt part
C1141	Porous Ceramic Ash Insert	10	14-0015, 14-0029
D1104	Tin capsules pressed standard weight 10.5 x 9mm	100	7717
D5055	Tin Weighing Pans/Capsules pressed std weight 10 x 10mm	100	14-0016
D5216	Tin Weighing Pans/Capsules pressed ultra-light weight 10 x 10mm	100	14-0016
D9001	Tin Foil Cones standard weight	100	14-0017, 7718
D9010	Tin Foil Cones standard weight	1500	14-0017
D9002	Large Tin Foil Cones, Standard Weight	100	
D9003	Large Tin Foil Cones, Standard Weight	400	

Porous ceramic
ash insert
C1141Tin capsules 10.5 x 9mm
D1104

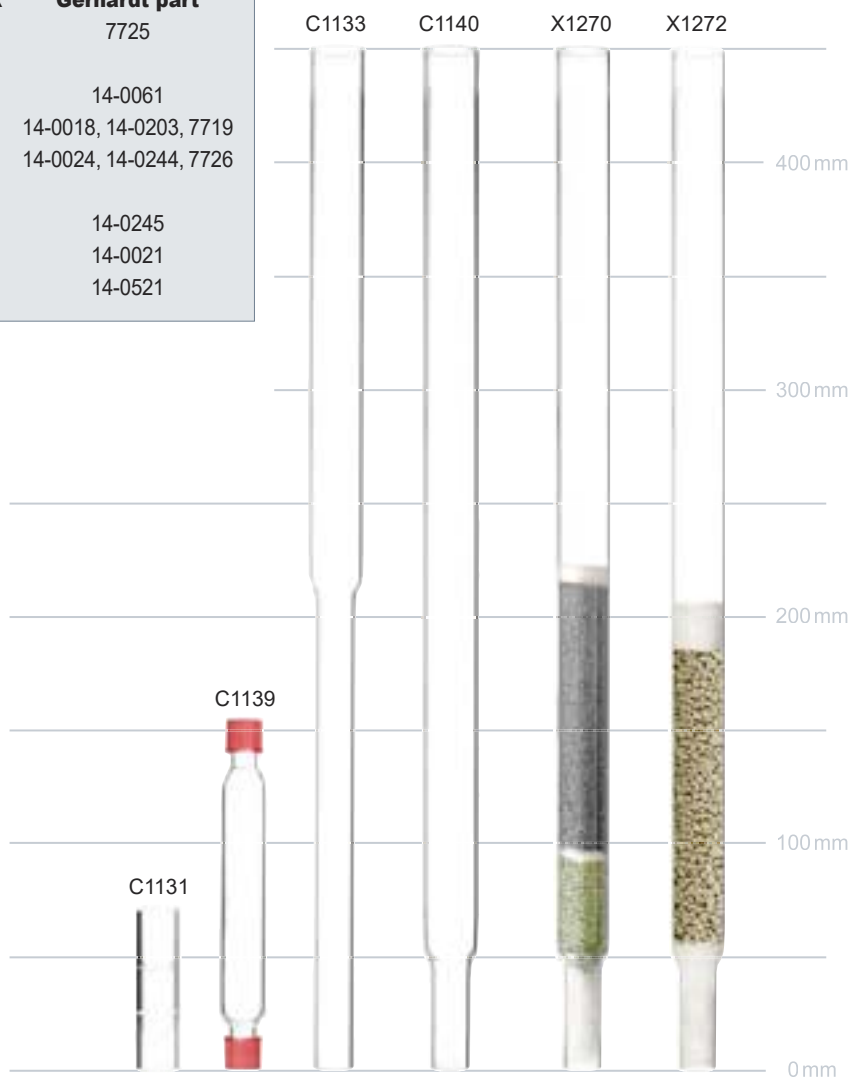
O-rings & seals

Part No	Description	Pack	Gerhardt part
C1020	Cap Kit for Threaded Joints; – Caps, PTFE Backed Silicone Seals	2	
E1003	O-ring Nitrile Rubber	10	14-0019, 7720
E1021	O-ring Schott Type Silicone/PTFE	10	14-0081
E1023	O-ring Schott Type Silicone/PTFE	2	14-0081
E1041	Seal Viton Rubber Chamfered Square Profile	5	
E1361	O-ring Top reaction tubes (Round profile)	1	14-0020, 7721

Cap kit for
threaded joints
C1020

The use of Gerhardt part numbers is intended for convenience only, and does not imply that the products are of OEM origin. All Elemental Microanalysis products are guaranteed to be of high quality and are deemed to be suitable alternatives in the stated instruments. All Gerhardt trademarks acknowledged.

Part No	Description	Pack	Gerhardt part
C1131	Quartz Insert	1	7725
C1133	Combustion tube	1	
C1139	Absorption trap for water, complete	1	14-0061
C1140	Quartz Reaction tube	1	14-0018, 14-0203, 7719
X1270	Prepacked Reaction Tube	1	14-0024, 14-0244, 7726
X1272	Prepacked Reaction Tube – Chromium free catalyst	1	14-0245
X4030	CO ₂ adsorber tube with adsorbant	6	14-0021
X4031	CO ₂ adsorber tube with adsorbant	1	14-0521



For our extensive range of reference materials, see pages 23 – 26.

Other operating supplies






Aluminium ferrules, 2mm
F4506



Part No	Description	Pack	Gerhardt part
F4506	Aluminium Ferrule 2mm	10	
E2538	GL14 Blanking Cap Red	2	
E2016	Forceps stainless steel, curved points, length 130mm	1	14-0072
E2076	Safety Gloves Kevlar	1 pair	
E2158	Silicone Grease	100g	
F2176	Solenoid Valve 4W	1	
F5108	Large spatula	1	
F5103	Spatula	1	
F5104	Spatula (left handed)	1	
E2292	Spatula micro spoon	1	
F4523	Tubing Nuts 2mm	10	14-0070
E2030	Tubing PTFE 2 x 1mm x 5 metres	5m	14-0085
E2033	Tubing Stainless Steel 2 x 1mm x 3 metres	3m	14-0129

Chemical supplies

Macro CN/CHN/CNS/N/protein analysis

Part No	Description	Pack	LECO® part
B1163	Aluminium Oxide Pellets	200g	502-188
B1186	Combustion Aid for Liquids	454g	501-427
B1185	Combustion Aid for Solids	454g	501-426
B1184	Combustion Catalyst	250g	502-321
B1136	Copper Turnings Extra Fine Long Strands Reduced & Annealed	100g	502-656
B1107	Copper Turnings Fine Long Strands Reduced & Annealed	200g	502-656
B1015M	Copper Wires Fine Wires Reduced 4 x 0.5mm	100g	502-189
B1212M	Copper Wires Fine Wires Reduced 4 x 0.5mm	1kg	
B1083M	Copper Wires Pound Pack Fine Wires Reduced 4 x 0.5mm	454g	502-304-500
 B1161	EMADrone Magnesium Perchlorate	454g	501-171
 B1162	EMASorb A Granular 0.8 to 1.6mm 14 to 25 mesh	500g	502-174
 B1164	EMASorb B Granular 1.6 to 3mm 7 to 14 mesh	500g	502-176
B1527	F/Cl Trap Material	225g	769-610
 B1191	Furnace Reagent	100g	501-609
B1166	Glass Wool Borosilicate Fibres	454g	501-081
B1167	Glass Wool Borosilicate Fibres	227g	763-265
B1266	Glass Wool Rope Borosilicate Fibres	454g	501-081
B1267	Glass Wool Rope Borosilicate Fibres	227g	763-265
B1269	Halogen Scrubber	50g	502-351
B1526	Halogen Trap Material	200g	769-608
B1195	Iron Chip Accelerator	908g	501-077
B1165	Iron Wool Grade #2	450g	502-310
B1190	Magnesium Oxide Beads	200g	502-359
B1061	Nitrogen Catalyst Pellets	50g	502-049
B1139	Platinised Alumina 1% Pt Granular 0.85 to 1.2mm	50g	
B1522	Quartz Wool Wadding	200g	501-608
B1192	Silica (Quartz) Wool Strips	10	608-379
B1102	Silica (Quartz) Wool Very Fine	50g	502-177
 B1187	Vanadium Pentoxide Accelerator	250g	501-636



Aluminium
oxide pellets
B1163




Nitrogen catalyst pellets
B1061



Iron chip
accelerator
B1195

Do you want to find a product
using the manufacturer
part number?

– Use the cross reference lists,
beginning on page 39, or the
OEM Search on our website.

 These products are classified as hazardous for shipping

We support the following Macro analysers from LECO®:

LECO® 528 series

LECO® 628 series

LECO® 828 series

LECO® 928 series

LECO® CHN600/800

LECO® CHN1000/CNS1000

LECO® CHN2000

LECO® CNS/NS/CN2000

LECO® TruSpec CHN/CN

LECO® TruMac

Please contact us for a Product Sheet specifically
for your analyser, or use the OEM Search on our
website and select the analyser you require.



Combustion
catalyst
B1184

Iron wool grade #2
B1165



Copper wires, 4 x 0.5mm, B1212M

The use of LECO® part numbers is intended for convenience only, and does not imply that the products are of OEM origin. All Elemental Microanalysis products are guaranteed to be of high quality and are deemed to be suitable alternatives in the stated instruments. All LECO® trademarks acknowledged.



Ceramic crucible
C4034



Ceramic crucibles
C4039



Porous crucible
C4065



Copper capsules
part round base 6 x 18 mm
D4100

Part No	Description	Pack	LECO® part
D9005	Cel Capsules Medium	400	502-382
D9004	Cel Capsules Small	400	502-338
D5300	Ceramic Boat Liner Nickel 50 x 15 x 8mm	100	502-343
C4038	Ceramic Boats Unglazed	50	529-203
C4036	Ceramic Boats Unglazed	100	529-203
C4137	Ceramic Boats Unglazed	250	528-203-250
C4136	Ceramic Boats Unglazed	500	529-203-500
C4034	Ceramic Crucible	10	501-045-125
C4039	Ceramic Crucibles	50	529-026
D4100	Copper Capsules Part Round Base 6 x 18mm	100	501-571
C4046	Crucible Transparent Silica	50	UK-7753
D8012	Evaporating Foil Cups Tin Capacity 5ml 28 x 24mm diameter	48	UK-338
C4071	Large crucible for liquid	10	617-605
E2388	Micro Porous Crucible	10	502-489
C4065	Porous Crucible	10	614-961-110
C4067	Porous Crucible (Pack of 5)	5	(½ pk of 614-961-110)
D4003	Smooth Wall Tin Capsules Round Base 18 x 5mm	100	501-059
D4015	Smooth Wall Tin Capsules Round Base 18 x 6mm	1000	502-040-100
D4007	Smooth Wall Tin Capsules Round Base 18 x 6mm	100	502-040
D4009	Smooth Wall Tin Capsules Round Base 20 x 8mm	100	502-167
D9001	Tin Foil Cones Standard Weight	100	502-186-200
D9010	Tin Foil Cones Standard Weight	1500	502-186-100
D9002	Tin Foil Cones, Large, Standard Weight	100	502-397
D9003	Tin Foil Cones, Large, Standard Weight	400	502-397-400

Tin foil cones
standard weight
D9001



Smooth wall tin capsules
round base 18 x 5 mm
D4003



Smooth wall tin capsules
round base 20 x 8 mm
D4009



Ceramic boat liner,
nickel, 50 x 15 x 8 mm
D5300



Ceramic boats unglazed
C4038

Quartz, glassware & furnace tubes

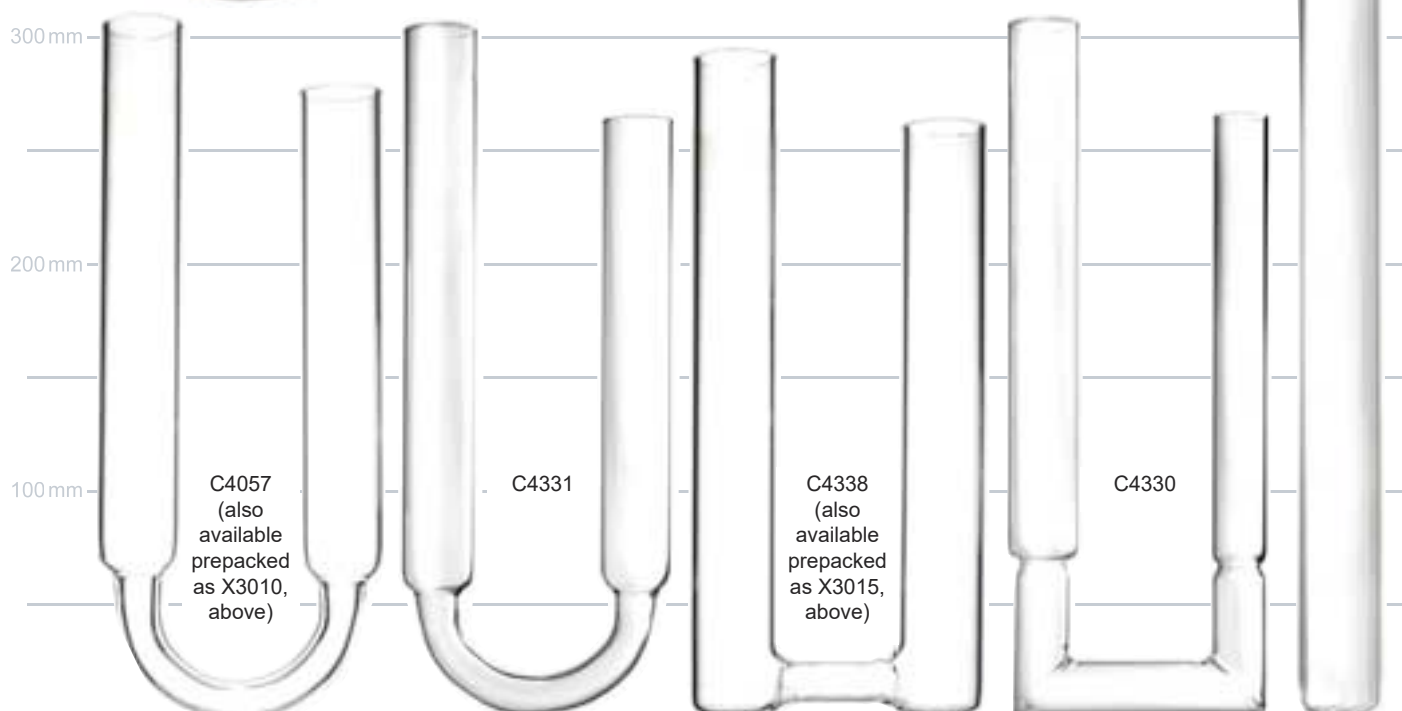
Macro CN/CHN/CNS/N/protein analysis

Part No	Description	Pack	LECO® part
C4057	Combustion Tube FP-528	1	616-108
C4331	Combustion tube CHN 600	1	776-286
C4338	Combustion Tube Truspec/FP628	1	619-065
C4330	Combustion U Tube CHN 800	1	601-132
C4042	Inner Combustion Tube Ceramic	1	606-313
C4059	Inner Combustion Tube Ceramic CNS1000	1	608-505
C4053	Inner Combustion Tube Silica CHN-1000	1	608-342
C4041	Outer Combustion Tube Ceramic	1	606-309
C4052	Outer Combustion Tube Ceramic CHN-1000	1	608-344
X3010	Prepacked Combustion Tube LECO FP528	1	
X3015	Prepacked Reaction Tube LECO Truspec	1	

C4041 C4042 C4052 C4059



C4053

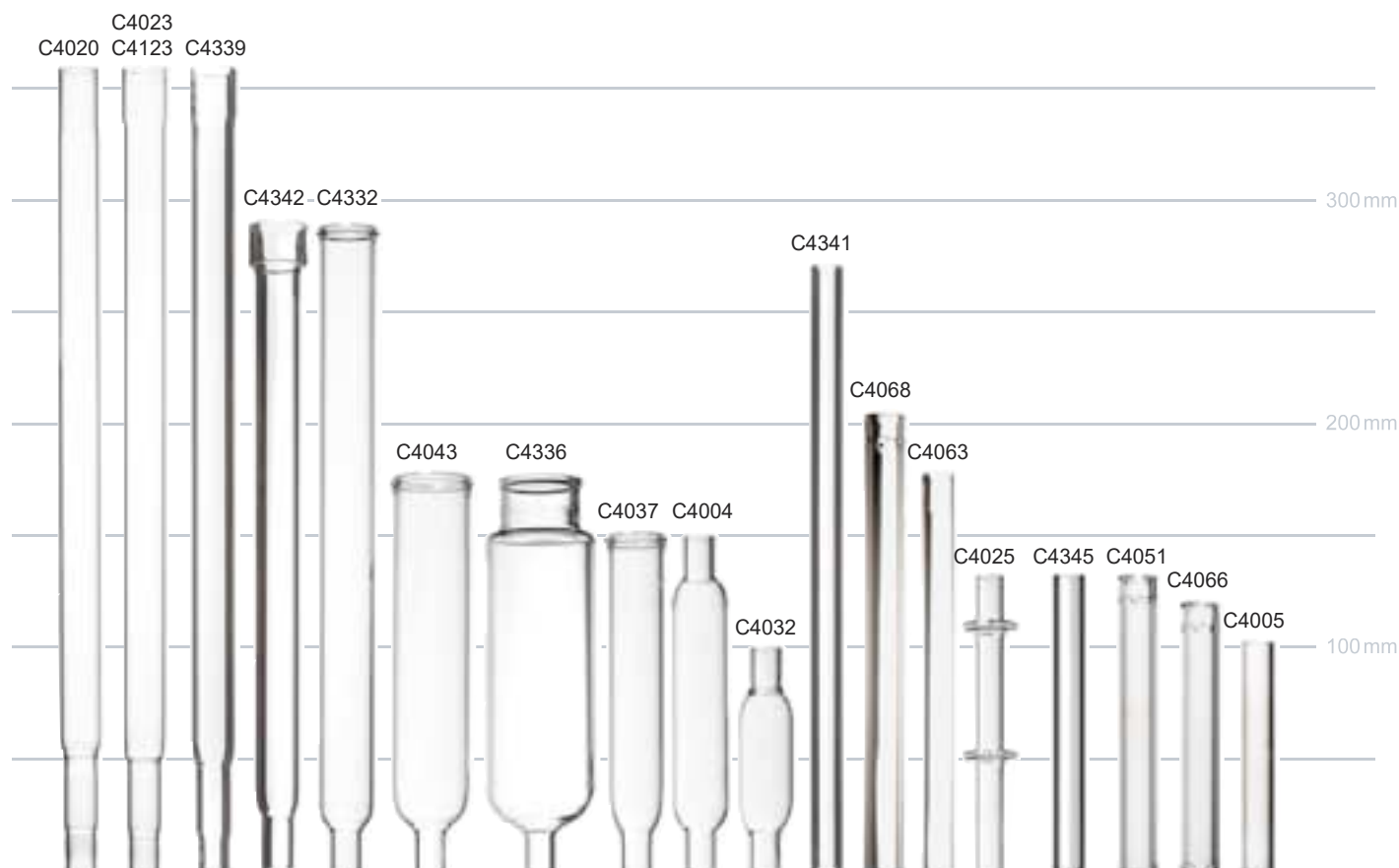


Macro CN/CHN/CNS/N/protein analysis

Quartz, glassware & furnace tubes

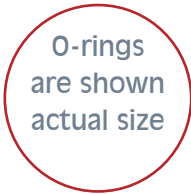


Part No	Description	Pack	LECO® part
C4336	Anhydron Tube (Large)	1	783-608
C4032	Bubble/Filter/Reagent Tube Borosilicate Glass	1	771-030
C4023	Catalyst Heater Tube Transparent Silica	1	601-437
C4123	Catalyst Heater Tube Transparent Silica pack of 5	5	601-437B
C4040	Ceramic Stop	1	606-308
C4027	Filling Funnel Borosilicate Glass	1	502-023
C4342	Filter tube	1	618-809
C4037	Furnace Filter Tube Borosilicate Glass	1	601-390
C4345	Glass tube TruSpec	1	619-425
C4058	Honeycomb Ceramic	1	780-899
C4056	Lance Tube Drilled	1	616-632
C4068	Oxygen Lance CHN1000	1	783-278
C4063	Oxygen Lance CNS/CHN-1000	1	608-339
C4051	Oxygen Lance Long (Lance length 5.25)	1	616-146
C4066	Oxygen Lance Short (lance length 4.75)	1	614-962
C4025	Oxygen Lance Transparent Silica	1	776-283
X3000	Prepacked Catalyst Heater/Reduction Tube LECO Transparent Silica	1	
C4005	Reagent/Filter Tube Borosilicate Glass	1	775-880
C4332	Reagent Tube	1	617-548
C4004	Reagent Tube Borosilicate Glass	1	775-601
C4043	Reagent Tube Borosilicate Glass	1	606-327
C4020	Reduction Tube Transparent Silica	1	780-911
C4339	Reduction Tube	1	619-154
C4341	Reagent Tube	1	619-268



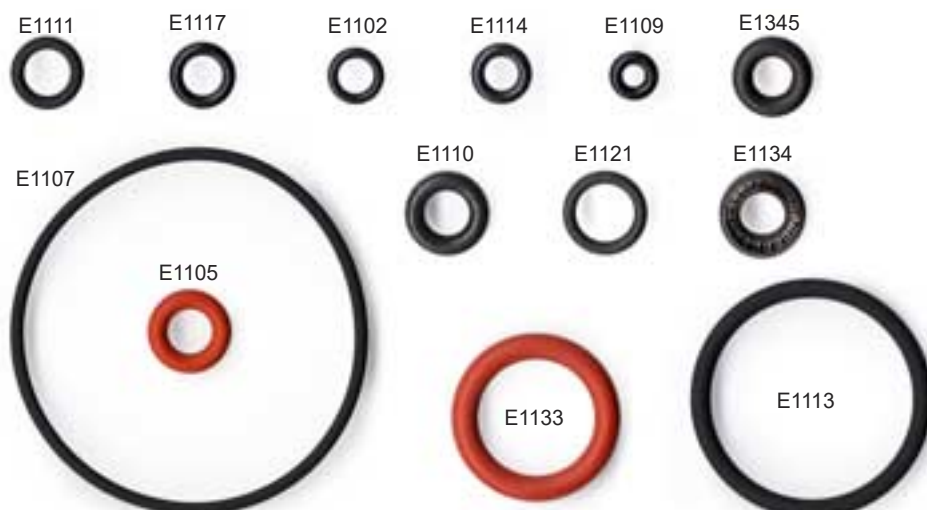
O-rings & seals

Macro CN/CHN/CNS/N/protein analysis

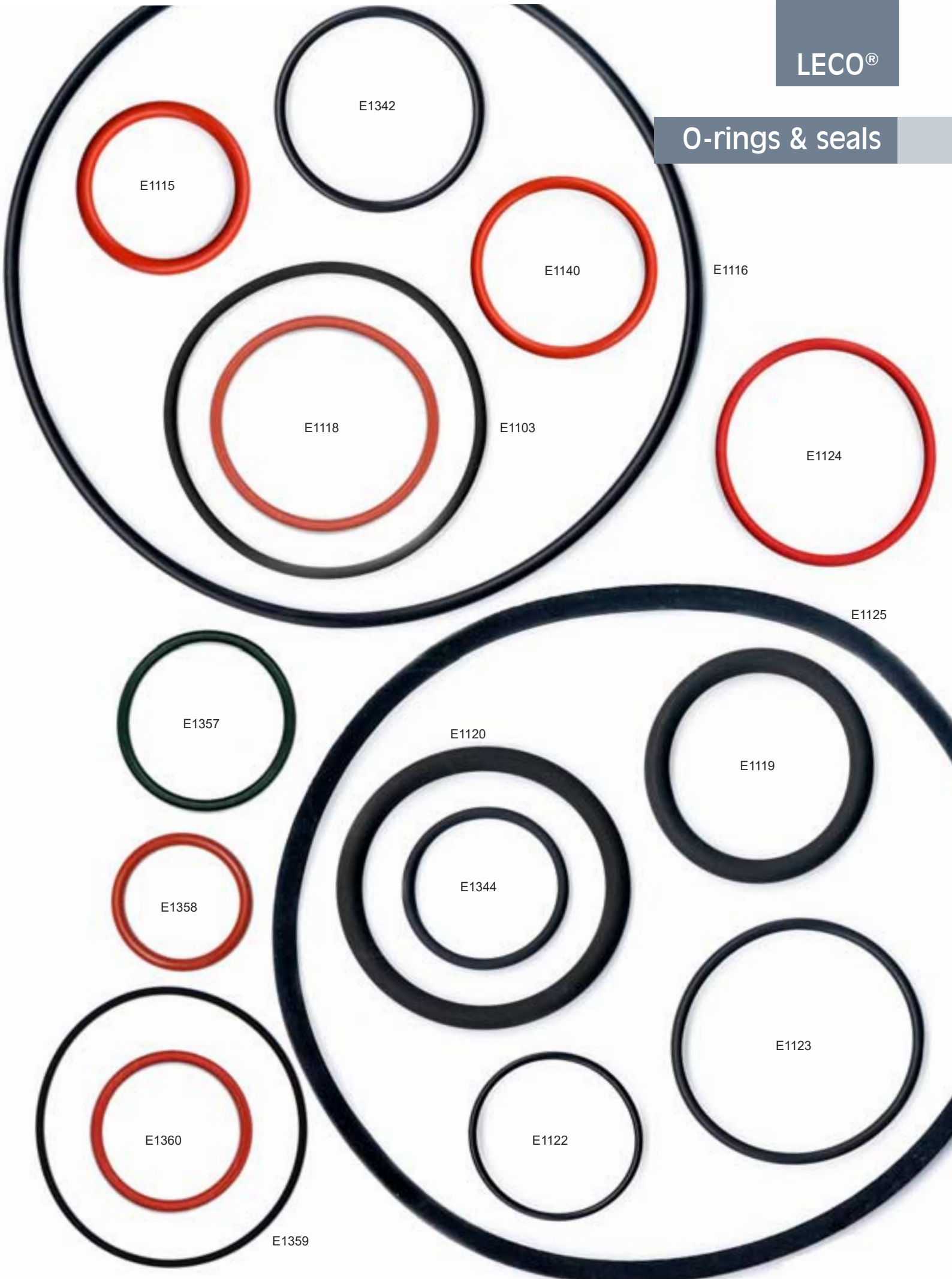


O-rings
are shown
actual size

Part No	Description	Pack	LECO® part
E1100	O-ring Sample Drop Block 18.7mm x 2.6mm	1	772-910
E1101	O-ring Catalyst Heater Tube 14.0mm x 2.6mm	1	601-442
E1102	O-ring 4.7mm x 1.4mm	1	601-939
E1103	O-ring Sample Drop Block 68.0mm x 2.6mm	1	601-504
E1105	O-ring Combustion/Catalyst/Filter Tube 6.0mm x 2.6mm	1	605-828
E1107	O-ring Condensing Block 44.2mm x 1.8mm	1	763-379
E1109	O-ring Doser Valve Assembly 2.9mm x 1.8mm	10	772-269
E1110	O-ring 6.0mm x 2.6mm	1	772-520
E1111	O-ring Catalyst Heater Assembly 6.1mm x 1.8mm	1	772-738
E1112	O-ring Sample Drop Block 21.9mm x 2.6mm	1	589-551
E1113	O-ring Reagent Tube 26.7mm x 2.6mm	1	773-141/773-320
E1114	O-ring Sample Drop Block 4.5mm x 1.8mm	1	771-040
E1115	O-ring Combustion Tube 31.3mm x 3.5mm	1	776-284
E1116	O-ring Ballast Tank 145.7mm x 3.5mm	1	778-116
E1117	O-ring Combustion System 5.3mm x 1.8mm	1	606-333
E1118	O-ring Combustion System 44.1mm x 2.6mm	1	611-431
E1119	O-ring Inner Combustion Tube 40.7mm x 5.3mm	1	606-312/608-378/611-476
E1120	O-ring Outer Combustion Tube 53.3mm x 5.3mm	1	606-310/611-477
E1121	O-ring Combustion System 7.6mm x 1.8mm	1	760-841
E1122	O-ring Precooler Assembly 34.7mm x 1.8mm	1	771-991
E1123	O-ring Combustion System 50.5mm x 2.6mm	1	774-489
E1124	O-ring Combustion System 44.1mm x 2.6mm	1	775-314
E1125	Neoprene Gasket Ballast Seal 160mm x 150mm x 3mm	1	778-120
E1131	O-ring Catalyst Heater Tube 10.8mm x 2.6mm	1	778-114
E1133	O-ring Filter Tube 15.5mm x 3.5mm	1	765-976
E1134	Radial shaft seal autoloader 6.4mm x 2.6mm	1	609-271
E1139	O-ring Lance Assembly FP528 17.2mm x 1.8mm	2	780-831
E1140	O-ring Combustion Tube FP528/628 36.1mm x 3.5mm	1	616-138
E1311	O-ring 17.1mm x 2.6mm	1	771-407
E1328	O-ring 47.0mm x 5.3mm	1	783-190/783-897
E1329	O-ring 37.5mm x 5.3mm	1	783-189
E1342	O-ring 41.0mm x 2.6mm	1	774-425
E1344	O-ring 31.4mm x 2.6mm	1	601-684
E1345	O-ring 5.2mm x 2.6mm	1	617-136
E1357	O-ring 34.6mm x 2.6mm	1	612-340
E1358	O-ring 25.1mm x 2.6mm	1	619-139
E1359	O-ring 56.9mm x 1.8mm	1	619-192
E1360	O ring 29.8mm x 2.6mm	1	702-557



O-rings & seals



E1115

E1342

E1140

E1116

E1118

E1103

E1124

E1125

E1357

E1120

E1119

E1358

E1344

E1123

E1360

E1122

E1359

Other operating supplies

Macro CN/CHN/CNS/N/protein analysis

Part No	Description	Pack	LECO® part
E2796	Assy Tubing Pinch Valves for LECO 928	1	625-603-331
E2797	Assy Tubing Pinch Valve	1	622-002-319
E2768	Boat Puller Assembly	1	501-062
E2736	Braided Cable	1	606-319
E2772	Braided Cable (short strap)	1	613-563
E2794	C-Flex Tubing Repl Kit	1	625-602-470/ 625-602-172
E2154	Cleaning Brush	1	601-981
E2170	Cooling Fan 80x80x38mm 115VAC	1	772-992
E2165	Cooling Plate Stainless Steel	1	601-387
E2471	Crucible Tong	1	761-929
E2499	Dosing Valve Stem	1	616-540
E2166	Dosing Valve Stem Stainless Steel Without O-rings	1	601-937
E2745	Fan FP528	1	616-548
E2016	Forceps Stainless Steel Curved Points	1	604-378
E2017	Forceps Stainless Steel Straight Points	1	502-028
C4060	Glass Scoop	1	503-032
E2204	Heating Element Clamp	1	606-320
E2206	Heating Elements Set of 4	4	606-601
E2199	Lance Assembly Complete	1	616-147
E2498	Lance Assembly Complete	1	614-963
E2197	Lance Holder Block	1	783-275
E2198	Lance Holder Cover	1	783-276
E2379	Mesh screen filter	1	617-441
E2464	O-ring Installation Tube	1	603-350
E2244	Paper Roll SC32/132/232	1	770-764
E2369	Particle Filter	1	616-504
E2151	Particle Filter	1	768-980/ 633-101-460
E2150	Pinch Valve Tubing	1ft	601-691
E2183	Pneumatic Cylinder 1 Stroke 3/8 Bore	1	601-876
E2164	PolyFlow Tube 1/4 OD x 1/8 ID	1ft	537-103
E2169	Polyu Tubing 1/8 OD x 1/16 ID	1ft	773-662

Lance assembly complete
E2199Lance holder block
E2197Particle filter
E2369Particle filter
E2151Heating element clamp
E2204Braided cable
E2736Braided cable
E2772Heating element
E2206Cleaning brush
E2154



Secondary (screen) filter
E2235

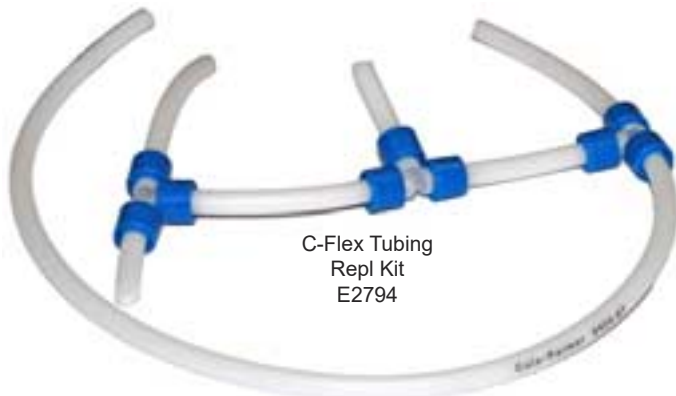


Tubing Inserts S/Steel
1/4 x 3/16
E2160

Part No	Description	Pack	LECO® part
E2152	Printer Paper American Letter 8.5 x 11	600 sheets	601-483
E2153	Printer Ribbon	1	601-484
E2237	Printer Ribbon CHN600/SC32/132/232/CR12	1	770-778
E2380	Screw	1	190-624
E2163	Screw Nylon 6-32 x 1 Slotted Countersunk Head	1	190-865
E2162	Screw S/Steel 6-32 x 0.44 Philips Pan Head	1	190-055
E2185	Screw Zinc Plate 6-32x0.25 Philips Countersunk (Loading Head)	1	190-427
E2201	Screws For Lance Assembly FP-528	4	190-423
E2238	Seal Piston FP228 328 428 528 CHN1000/CNS1000	1	601-883
E2235	Secondary (screen) Filter	1	775-306
E2158	Silicone Grease	100g	501-241
E2039	Snoop Leak Detection Fluid	236ml	502-213
E2462	Spatula	1	501-614
E2167	Spring - Dosing Valve Assembly	1	602-672
E2205	Thermocouple SC-432	1	606-224
E2182	Tube Fitting Brass 10/32 to 1/16 ID tube	1	773-661
E2181	Tube Fitting White Nylon 1/8 NPT to 3mm ID tube	1	602-605
E2160	Tubing Inserts S/Steel 1/4 x 3/16	1	163-020
E2161	Tubing PTFE 1/4 OD x 3/16 ID 172-505	1ft	172-505
E2196	Valve Block	1	601-936



Spatula
E2462

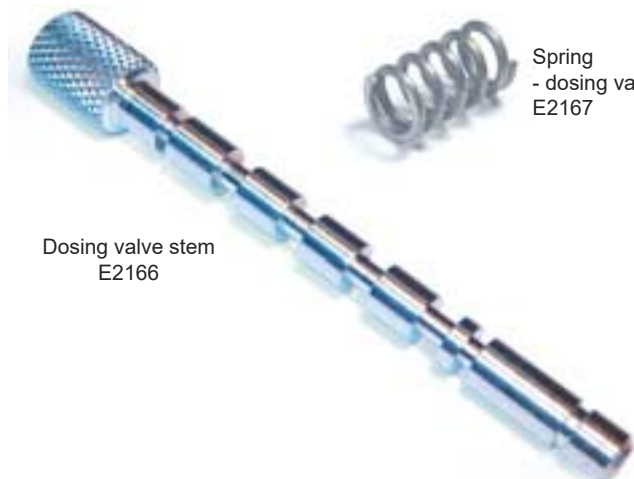


C-Flex Tubing
Repl Kit
E2794



Thermocouple SC-432
E2205

Tube fitting brass
E2182



Dosing valve stem
E2166



Spring
- dosing valve assembly
E2167



Valve block
E2196

Capsules and chemical supplies

Macro CN/CHN/CNS/N/protein analysis

Part No	Description	Pack	Skalar® part
D5013	Aluminium Weighing Pans Pressed 7.5 x 15mm	100	
B1208	Silica (Quartz) Wool Very Fine	10g	2CA10359
B1315	Aluminium oxide carrier	50g	2CA16353
B1608	Copper Oxide Wires (Coarse) 6 x 0.65mm	200g	2SN20352
 B1312	Anhydrous-water absorber	200g	2SN20354
 B1117	EMASorb B Granular 1.6-3mm , 7-14 mesh CO ₂ Absorbant	200g	2SN20355
B1314	Copper reductor	350g	2SN20357
B1250	Quartz Wool Discs 15mm Diameter	25	90035245
B1313	Brass wool	100g	90050628
B1170	Steel Wool	100g	90050629





Copper oxide wire (coarse)
B1608



Copper reductor
B1314



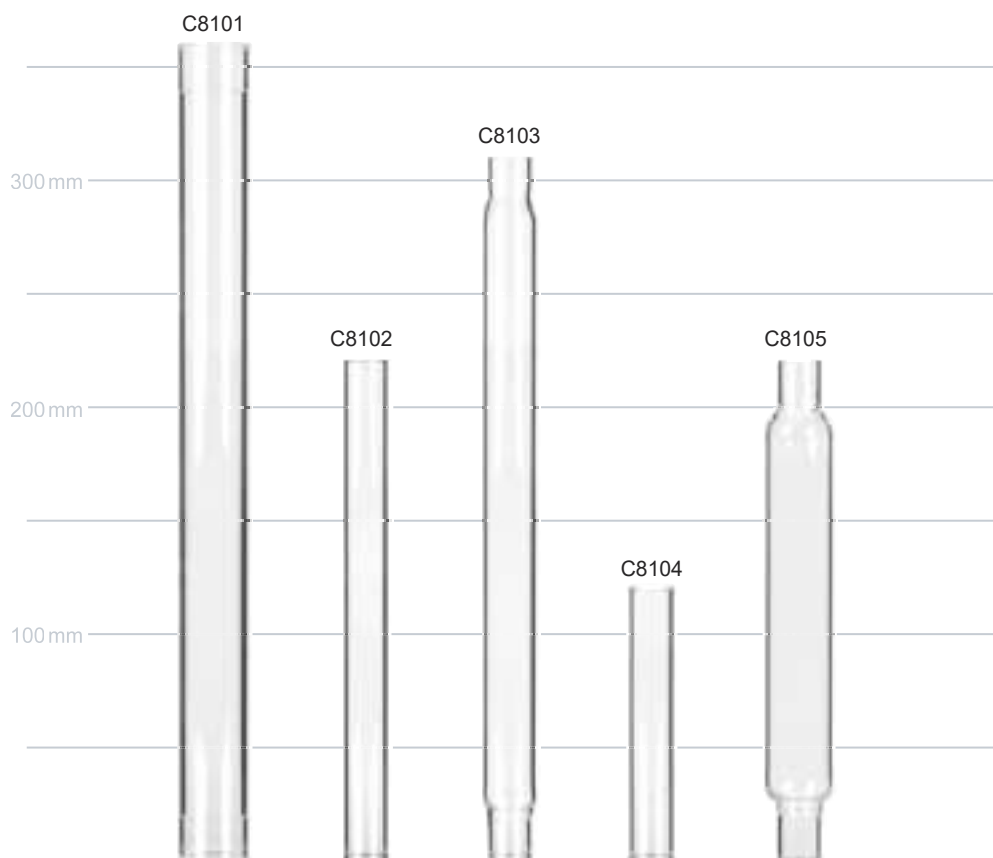
Brass wool
B1313

  These products are classified as hazardous for shipping

Glassware

Macro CN/CHN/CNS/N/protein analysis

Part No	Description	Pack	Skalar® part
C8101	Quartz tube Cu reductor Skalar®	1	2SN100099
C8102	Small Scrubber tube for Skalar® 220mm Borosilicate	1	2SN100062
C8103	Large Scrubber tube for Skalar® 310mm Borosilicate	1	2NC22140
C8104	He ref. Scrubber tube for Skalar® 120mm Borosilicate	1	2NC22141
C8105	Brass Scrubber tube for Skalar® 220mm Borosilicate	1	2SN100061



(Bracketed values are for reference only)

Natural reference materials

Part No	Description	Pack	%C	%H	%N	%O	%S
B2273	Alfalfa Organic Analytical Standard	30g	42.40	6.19	4.39		0.25
B2164	Algae (Bladderwrack) Standard	30g	33.67	4.92	1.25		2.29
B2162	Algae (Spirulina) Standard	30g	47.02	6.94	10.93		0.77
B2277	Barley Flour Organic Analytical Standard	30g	(43.51)	(6.00)	1.90		0.12
B2166	Birch Leaf Standard	30g	48.09	6.55	2.12		0.17
B2160	Chitin Standard	30g	42.72	6.49	6.25	37.84	
B2168	Coconut Shell Standard	30g	49.04	6.01	0.09		
B2272	Corn Gluten Organic Analytical Standard	30g	45.27	5.98	10.38		0.85
B2270	Corn Meal Organic Analytical Standard	30g	(45.52)	(6.3)	(1.15)		0.10
B2152	Low Organic Content Soil Standard OAS	30g	1.44		0.090		0.012
B2178	Medium Organic Content Soil Standard OAS	30g	2.46		0.16		0.016
B2150	High Organic Content Sediment Standard OAS	30g	7.45		0.52		0.62
B2276	Oatmeal Organic Analytical Standard	30g	47.00	6.67	2.03	42.10	0.16
B2170	Olive Stone Standard	30g	46.39	6.12	0.200		
B2141	Orchard Leaves Standard	20g	46.54	5.91	3.38		0.156
B2140	Pasta Standard	10g			2.10		
B2149	Pasta Standard	100g			2.12		
B2154	Protein Standard OAS (Certified for Nitrogen only)	30g			13.32		
B2278	Rice Flour Organic Analytical Standard	30g	39.71	6.96	1.50		0.06
B2275	Rye Flour Organic Analytical Standard	30g	39.50	5.5	1.75		0.13
B2196	Set of 7 soil standards Contains 1 of each of the following B2176, B2180, B2182, B2184, B2186, B2188, B2189						
B2188	Soil Standard (Chalky)	30g	4.64		0.32		
B2184	Soil Standard (Clay)	30g	2.31		0.23		(0.030)
B2186	Soil Standard (Loamy)	30g	2.75		0.27		(0.044)
B2189	Soil Standard (Mineral)	30g	0.25		0.023		
B2176	Soil Standard (Peaty)	30g	15.95		1.29		0.43
B2180	Soil Standard (Sandy)	30g	0.46		0.043		
B2182	Soil Standard (Silty)	30g	2.19		0.18		(0.025)
B2158	Sorghum Flour Standard OAS	30g	41.26		1.47		0.095
B2271	Soy Bean Meal Organic Analytical Standard	30g	(45.24)	(5.73)	(7.89)		(0.42)
B2209	Bitumen-Asphalt CHNOS standard	30g	84.41	10.06	3.21	1.26	0.27
B2274	Wheat Flour Organic Analytical Standard	30g	38.86	5.45	1.81		0.13
B2156	Wheat Flour Standard OAS	30g	39.94		1.45		0.10

TOC/ROC/TIC reference materials

Part No	Description	Pack	TOC	ROC	TIC	TC (sum)
B2290	TOC/ROC/TIC Silty soil standard	30g	1.49	0.44	0.27	2.19
B2292	TOC/ROC/TIC Chalky soil standard	30g	2.71	0.51	1.34	4.56
B2293	TOC/ROC/TIC Control standard to DIN19539	30g	2.24	1.69	1.93	5.85
B2294	TOC/ROC/TIC Incinerator Ash standard	30g	LOQ*	0.79	0.28	1.10
B2295	TOC/ROC/TIC foundry sand standard	30g	1.15	1.81	0.10	3.12

* Limit of quantification (<0.1%)

Analysis values may change depending on the current batch available; please see the website or contact us for information on the current analysis values of reference materials.

Reference materials

Macro CN/CHN/CNS/N/protein analysis

Pure chemical reference materials

Part No	Description	Pack	%C	%H	%N	%O	%S
B2049	25-(Bis(5-tert-butyl-2-benzo-oxazol-2-yl) thiophene (BBOT) OAS	25g	72.58	6.10	6.53	7.38	7.41
B2118	3,5-Dinitrobenzoic Acid OAS	5g	39.67	1.87	13.18	45.22	
B2122	Acetanilide OAS	25g	71.10	6.71	10.34	11.81	
B2114	Acetanilide OAS	5g	71.10	6.71	10.34	11.81	
B2212	Ammonium Chloride Standard	5g			26.12		
B2211	Ammonium sulphate standard	5g			21.14		
B2138	Aspartic Acid OAS	100g	36.09	5.29	10.53		
B2139	Aspartic Acid OAS	10g	36.09	5.29	10.53		
B2006	Atropine OAS	10g	70.56	8.03	4.80	16.54	
B2104	Caffeine OAS	5g	49.48	5.16	28.83	16.47	
B2250	Calcium Carbonate	50g	11.99				
B2105	Cystine OAS	5g	29.95	5.03	11.64	26.64	26.67
B2146	Ethylenediaminetetra-acetic Acid (EDTA)	50g	41.15	5.52	9.54	43.69	
B2144	Ethylenediaminetetra-acetic Acid (EDTA)	500g	41.05	5.50	9.55		
B2137	Ethylenediaminetetra-acetic Acid (EDTA) OAS	100g	41.06	5.51	9.54		
B2115	Ethylenediaminetetra-acetic Acid (EDTA) OAS	50g	41.05	5.50	9.55		
B2120	Ethylenediaminetetra-acetic Acid (EDTA) OAS	25g	41.15	5.52	9.54	43.69	
B1405	Glutamic acid OAS	250g	40.71	6.14	9.52		
B2100	Methionine OAS	25g	40.28	7.44	9.41	21.45	21.49
B2101	Methionine OAS Nitrogen Only	50g	40.25	7.43	9.35		
B2099	Nicotinic Acid OAS	15g	58.63	4.08	11.37		
B2148	Phenylalanine OAS	25g	65.46	6.74	8.50	19.37	
B2210	Potassium Nitrate Standard	5g			13.72		
B2102	Stearic Acid OAS	5g	75.97	12.68		11.20	
B2121	Sucrose OAS	25g	42.02	6.52		51.45	
B2106	Sulphamethazine OAS	5g	51.82	5.07	20.04	11.41	11.51
B2107	Sulphamethazine OAS	25g	51.82	5.07	20.04	11.41	11.51
B2147	Sulphanilic Acid OAS	5g	41.71	4.03	8.00	27.64	18.54
B2142	Tryptophan OAS	100g			13.69		
B2130	Urea OAS	10g	20.02	6.74	46.61	26.66	
B2119	Urea OAS	25g	20.02	6.74	46.61	26.66	
B2260	Zinc Sulphide Standard	50g					32.9
B2901	Cystine CRM	5g	29.97	5.03	11.68	26.64	26.68
B2903	Sulphanilamide CRM	10g	41.81	4.66	16.30	18.61	18.64

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Coal and coke standards

Sulfur only in coal/coke

Part No	Description	Pack	%S	Part No	Description	Pack	%S
B2300	Coal Standard Sulphur	50g	0.36	B2342	Sulfur in Green Petroleum Coke	50g	0.43
B2301	Coal Standard Sulphur	50g	0.48	B2343	Sulfur in Green Petroleum Coke	50g	0.49
B2302	Coal Standard Sulphur	50g	0.76	B2344	Sulfur in Green Petroleum Coke	50g	0.906
B2303	Coal Standard Sulphur	50g	0.87	B2345	Sulfur in Green Petroleum Coke	50g	1.20
B2304	Coal Standard Sulphur	50g	1.07	B2346	Sulfur in Green Petroleum Coke	50g	2.47
B2305	Coal Standard Sulphur	50g	1.46	B2347	Sulfur in Green Petroleum Coke	50g	2.21
B2306	Coal Standard Sulphur	50g	2.04	B2348	Sulfur in Green Petroleum Coke	50g	2.58
B2307	Coal Standard Sulphur	50g	2.63	B2349	Sulfur in Green Petroleum Coke	50g	4.34
B2308	Coal Standard Sulphur	50g	3.03	B2386	Sulfur in Green Petroleum Coke	50g	5.56
B2309	Coal Standard Sulphur	50g	3.54	B2313	Ultra Low Sulphur Coal Standard	50g	0.00
B2310	Coal Standard Sulphur	50g	4.25	B2314	Ultra Low Sulphur Coal Standard	50g	0.022
B2311	Coal Standard Sulphur	50g	5.13	B2326	Ultra Low Sulphur Coal Standard	50g	0.055
B2312	Coal Standard Sulphur	50g	5.83	B2327	Ultra Low Sulphur Coal Standard	50g	0.102
B2317	Coke Standard Sulphur	50g	0.47	B2328	Ultra Low Sulphur Coal Standard	50g	0.146
B2315	Coke Standard Sulphur	50g	0.61				
B2316	Coke Standard Sulphur	50g	1.21				
B2339	Sulfur in Coal Standard	50g	1.18				
B2340	Sulfur in Coal Standard	50g	1.71				
B2341	Sulfur in Coal Standard	50g	7.06				

CHNS in green petroleum coke standards

Part No	Description	Pack	%Ash	%Vol. mat.	%Fixed C (calculated)	%S	BTU/lb	%C	%H	%N
B2318	Green Petroleum Coke Standard	50g	0.41	10.97	88.62	3.66	14919	88.46	3.11	1.45
B2319	Green Petroleum Coke RM	50g	0.60	6.85	92.55	5.00	14204	87.89	1.89	1.79

Mercury/chlorine in coal standards

Part No	Description	Pack	µg/g Hg	µg/g Cl	wt% S	wt% Ash
B2396	Mercury and Chlorine in Coal	25g	0.04 µg/g	(1713)	0.77	6.45
B2395	Mercury and Chlorine in Coal	25g	0.071 µg/g	(1645)	1.5	4.47
B2397	Mercury and Chlorine in Coal	25g	0.10 µg/g	(<0.01)	0.45	7.64
B2399	Mercury and Chlorine in Coal	25g	0.16 µg/g	(<0.01)	4.71	11.8
B2398	Mercury and Chlorine in Coal	25g	0.12 µg/g	(<0.01)	1.17	10.31

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Reference materials

Macro CN/CHN/CNS/N/protein analysis

Proximate coal standards

Part No	Description	Pack	%Ash	%Vol. mat.	%Fixed C (calculated)	%S	BTU/lb
B2801	Proximate Coal Standard	50g	6.31	43.54	(50.15)	0.41	11888
B2802	Proximate Coal Standard	50g	5.03	29.48	(65.49)	0.52	12572
B2803	Proximate Coal Standard	50g	21.02	15.76	(63.22)	0.81	11323
B2804	Proximate Coal Standard	50g	8.16	45.13	(46.71)	0.85	11278
B2805	Proximate Coal Standard	50g	17.26	32.27	(50.47)	1.42	12216
B2806	Proximate Coal Standard	50g	47.09	23.47	(29.44)	2.01	7409
B2809	Proximate Coal Standard	50g	19.33	30.37	(50.30)	3.04	11571
B2810	Proximate Coal Standard	50g	23.64	32.24	(44.12)	5.38	10031
B2811	Proximate Coal Standard	50g	41.64	26.39	(31.97)	1.80	8377
B2812	Proximate Coal Standard	50g	46.0	21.7	(32.3)	6.55	6829
B2813	Proximate Coal Standard - Anthracite	50g	20.97	7.01	(72.02)	0.54	11336
B2814	Proximate Coal Standard	50g	7.56	36.31	(56.13)	0.61	13182

Ultimate coal standards

(For the full analysis values, including minerals, sulfur forms, ash fusion temperature, see certificate)

Part No	Description	Pack	%Ash	%Vol. mat.	%Fixed C (calculated)	%S	BTU/lb	%C	%H	%N (calculated)	%O (calculated)
B2320	Ultimate Coal CHNS Standard	50g	6.31	43.54	(50.15)	0.41	11888	69.69	5.09	1.00	(17.5)
B2321	Ultimate Coal CHNS Standard	50g	10.02	35.80	(54.18)	1.12	12533	71.57	4.80	1.26	(11.23)
B2322	Ultimate Coal CHNS Standard	50g	42.89	26.30	(30.81)	2.27	8097	45.14	3.39	0.91	(5.40)
B2323	Ultimate Coal CHNS Standard	50g	19.33	30.37	(50.30)	3.04	11571	65.03	4.38	1.23	(6.99)
B2324	Ultimate Coal CHNS Standard	50g	23.64	32.24	(44.12)	5.39	10031	55.70	4.10	1.28	(9.89)
B2325	Ultimate Coal Standards CHNS Set contains 1 each of the following B2320, B2321, B2322, B2323, & B2324										
B2329	Ultimate Coal CHNS Standard	50g	5.54	17.58	(76.88)	0.76	14829	86.20	4.36	1.20	(1.94)

Oil and fuel standards

Part No	Description	Pack	%S	Part No	Description	Pack	%S
B2336	Extreme Pressure Oil Sulphur	100ml	2.00	B2364	Residual Oil Standard Sulphur	100ml	0.48
B2337	Extreme Pressure Oil Sulphur	100ml	3.30	B2365	Residual Oil Standard Sulphur	100ml	0.61
B2338	Extreme Pressure Oil Sulphur	100ml	4.19	B2366	Residual Oil Standard Sulphur	100ml	0.69
B2331	High Sulphur Residual Oil	100ml	20.00	B2367	Residual Oil Standard Sulphur	100ml	0.82
B2330	High Sulphur Residual Oil	100ml	30.00	B2368	Residual Oil Standard Sulphur	100ml	0.90
B2334	High Sulphur Residual Oil	100ml	5.00	B2369	Residual Oil Standard Sulphur	100ml	1.02
B2333	High Sulphur Residual Oil	100ml	5.78	B2370	Residual Oil Standard Sulphur	100ml	1.49
B2332	High Sulphur Residual Oil	100ml	9.86	B2371	Residual Oil Standard Sulphur	100ml	2.01
B2360	Residual Oil Standard Sulphur	100ml	0.13	B2372	Residual Oil Standard Sulphur	100ml	2.50
B2358	Residual Oil Standard Sulphur	100ml	0.15	B2373	Residual Oil Standard Sulphur	100ml	2.92
B2361	Residual Oil Standard Sulphur	100ml	0.21	B2374	Residual Oil Standard Sulphur	100ml	3.46
B2362	Residual Oil Standard Sulphur	100ml	0.30	B2375	Residual Oil Standard Sulphur	100ml	4.00
B2359	Residual Oil Standard Sulphur	100ml	0.35	B2376	Residual Oil Standard Sulphur	100ml	4.50
B2363	Residual Oil Standard Sulphur	100ml	0.42				

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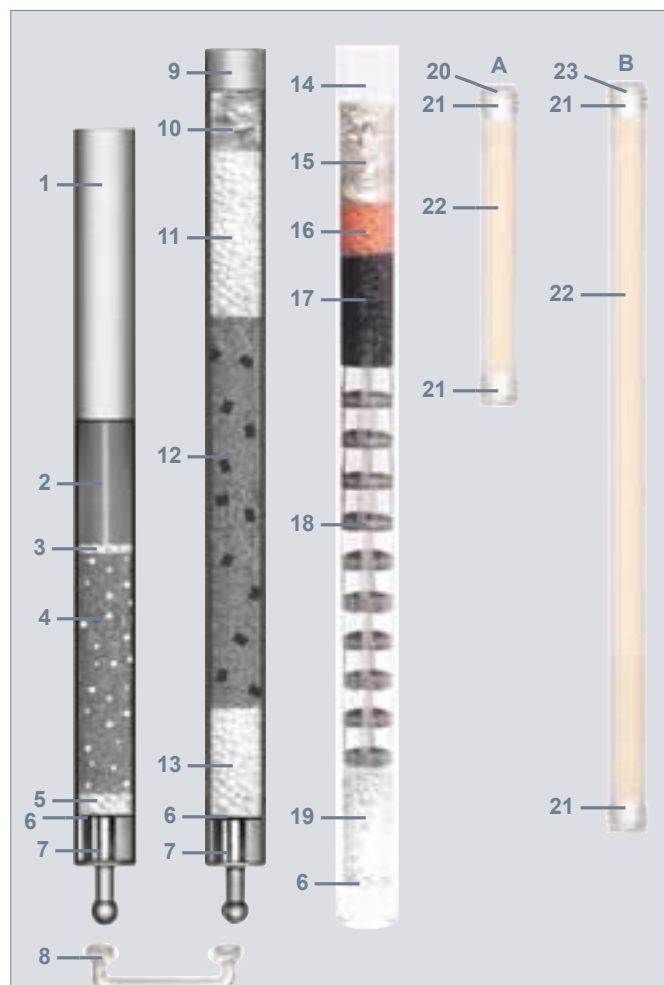
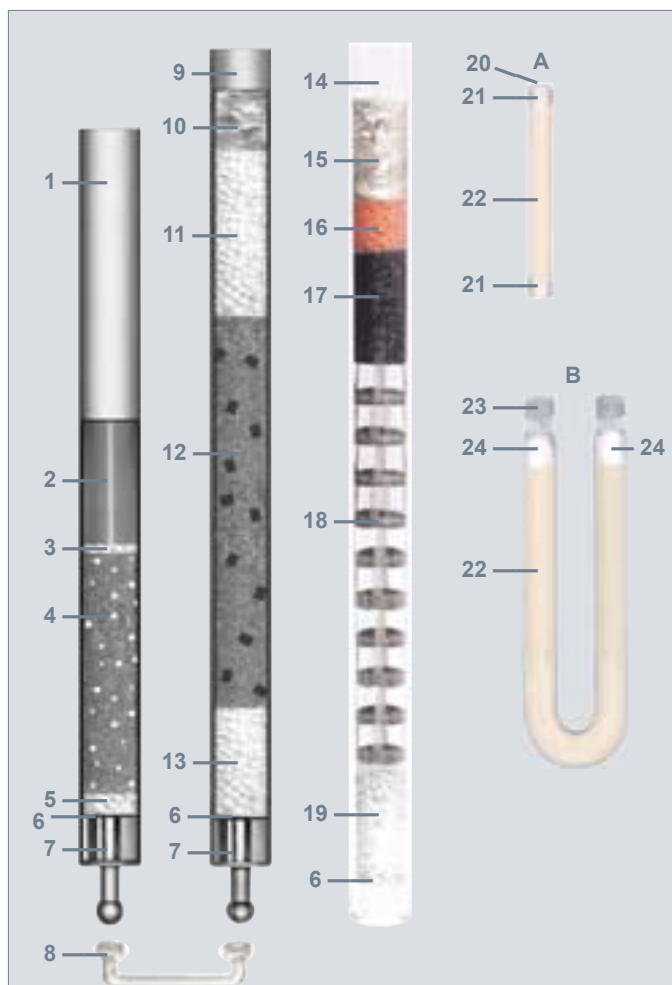
Configuration guide

FOR MACRO CN/CHN/CNS/N/PROTEIN ANALYSIS



Elementar® rapid N III

Elementar® rapid N cube



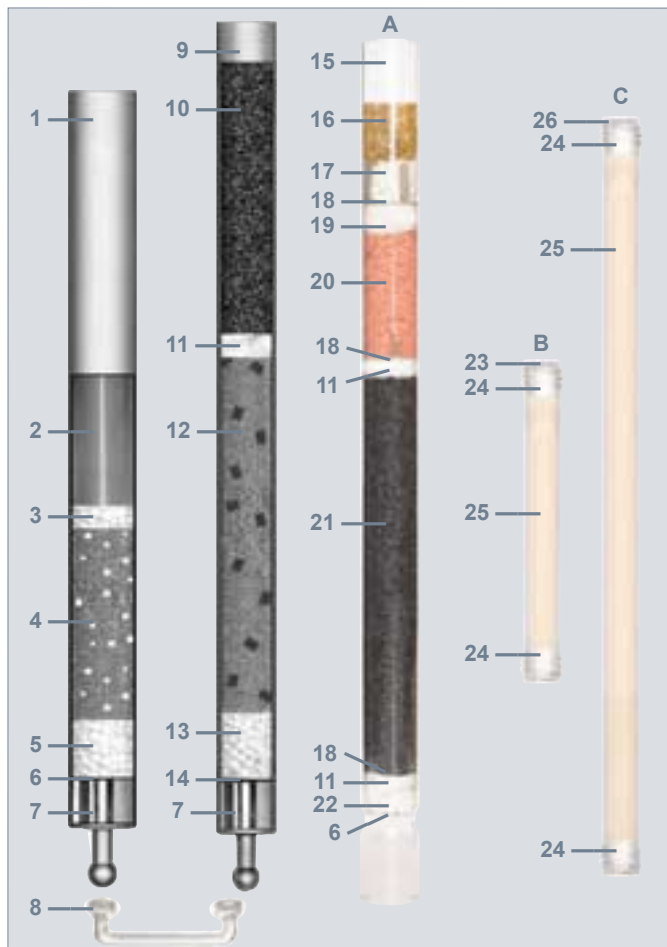
Key

Product	Qty	Elementar® part	Part No.
1 Combustion tube, steel		12.01-1036/4	C3041
2 Ash finger		12.00-1087/4	C3031
3 Alumina spheres	3 mm	50 008 467	B1093
4 Copper oxide ~ 80 g, & alumina spheres ~ 20 g	} 110 mm	05 001 039	B1122
		50 008 467	B1093
5 Alumina spheres	10 mm	50 008 467	B1093
6 Wire mesh ronde 22mm	1	12.00-1004/4	C3036
7 Distance ring	1	12.01-1032/4	C3048
8 Connecting tube 65 mm		11.00-1331/4	C3022
9 Post combustion tube, steel		25.00-1048	C3042
10 Silver wool	20 mm	22 131 365	B1231
11 Alumina spheres	76 mm	50 008 467	B1093
12 Copper oxide ~ 200 g, & Pt catalyst 5% ~ 15 g	} 180 mm	05 001 039	B1122
		03 002 262	B1196
13 Alumina spheres	50 mm	50 008 467	B1093
14 Quartz reduction tube		25.00-0017	C3040
15 Silver wool	fill to plug	22 131 365	B1231
16 Copper wires	20 mm	05 000 699	B1015M
17 Copper oxide wires, fine	50 mm	05 001 039	B1122
18 10 layers tungsten separated by stainless steel gauze spacers	} 20g each	12.00-0040	B1205
		12.01-1008/4	E2250
19 Alumina spheres	55 mm	50 008 467	B1093
20 Drying tube		22 160 200/4	C3008
21 Filter, diameter 18 mm	1	03 002 399	E1174
22 Sicapent		03 960 352	B1197
23 U-tube		34.00-1339/4	C3038
24 Filter, diameter 18 mm	2	03 002 399	E1174
A Prepacked sicapent filled C3008 trap			X3022
B Prepacked sicapent filled C3038 trap			X3023

Key

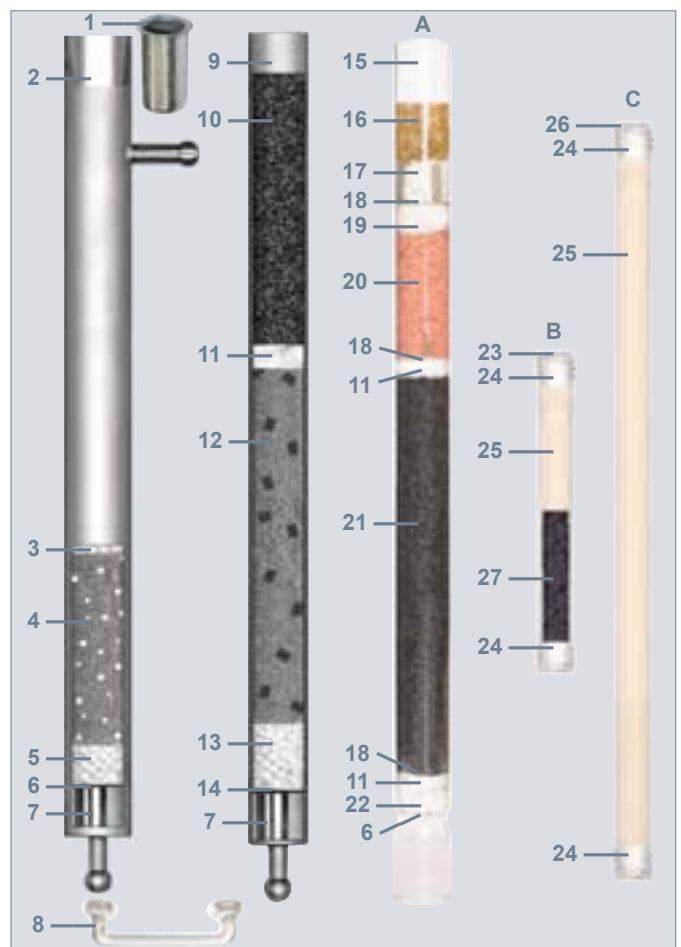
Product	Qty	Elementar® part	Part No.
1 Combustion tube, steel		12.01-1036/4	C3041
2 Ash finger		12.00-1087/4	C3031
3 Alumina spheres	3 mm	50 008 467	B1093
4 Copper oxide ~ 80 g, & alumina spheres ~ 20 g	} 110 mm	05 001 039	B1122
		50 008 467	B1093
5 Alumina spheres	10 mm	50 008 467	B1093
6 Wire mesh ronde 22mm	1	12.00-1004/4	C3036
7 Distance ring	1	12.01-1032/4	C3048
8 Connecting tube 65 mm		11.00-1331/4	C3022
9 Post combustion tube, steel		25.00-1048	C3042
10 Silver wool	20 mm	22 131 365	B1231
11 Alumina spheres	76 mm	50 008 467	B1093
12 Copper oxide ~ 200 g, & Pt catalyst 5% ~ 15 g	} 180 mm	05 001 039	B1122
		03 002 262	B1196
13 Alumina spheres	50 mm	50 008 467	B1093
14 Quartz reduction tube		25.00-0017	C3040
15 Silver wool	fill to plug	22 131 365	B1231
16 Copper wires	20 mm	05 000 699	B1015M
17 Copper oxide wires, fine	50 mm	05 001 039	B1122
18 10 layers tungsten separated by stainless steel gauze spacers	} 20g each	12.00-0040	B1205
		12.01-1008/4	E2250
19 Alumina spheres	55 mm	50 008 467	B1093
20 Drying tube		16.00-1037	C3047
21 Cotton wool	10 mm	05 001 715	E2516
22 Sicapent		03 960 352	B1197
23 Drying tube 348 mm		16.00-1012	C3026
A Prepacked sicapent filled C3047 trap			X3025
B Prepacked sicapent filled C3026 trap			X3024

Elementar® rapid N exceed®



Product	Qty	Elementar® part	Part No.
1 Combustion tube, steel		16.02-0036	C3069
2 Ash finger		16.00-1104	C3065
3 Alumina spheres	10 mm	50 008 467	B1093
4 Copper oxide ~ 80 g, & alumina spheres ~ 20 g	87 mm	05 001 039	B1122
		50 008 467	B1093
5 Alumina spheres	26 mm	50 008 467	B1093
6 Wire mesh ronde 26.8mm		50 008 449	C3046
7 Distance ring		12.01-1032/4	C3048
8 Connecting tube 65 mm		11.00-1331/4	C3022
9 Post combustion tube, steel		25.00-1048	C3042
10 Post combustion reagent for exceed	126 mm	16.02-0056	B1305
11 Quartz wool	10 mm	03 679 908	B1102
12 Copper oxide ~ 180 g, & Pt catalyst 5% ~ 15 g	167 mm	05 001 039	B1122
		03 002 262	B1196
13 Alumina spheres	28 mm	50 008 467	B1093
14 Wire mesh ronde 22mm		12.00-1004/4	C3036
15 Quartz reduction tube			C3049
16 Brass wool	25 mm	38.00-0124	B1304
17 Alumina spheres	15 mm	50 008 467	B1093
18 Stainless steel gauze spacer		12.01-1008/4	E2250
19 Quartz wool	15 mm	03 679 908	B1102
20 Copper wires	55 mm	05 000 699	B1015M
21 Copper oxide wires, fine	185 mm	05 001 039	B1122
22 Alumina spheres	9 mm	50 008 467	B1093
23 Drying tube short		16.00-1037	C3047
24 Cotton wool	10 mm	05 001 715	E2516
25 Sicapent		03 960 352	B1197
26 Drying tube 348 mm		16.00-1012	C3026
A Prepacked reduction tube			X2507
B Prepacked sicapent filled C3047 trap			X3025
C Prepacked sicapent filled C3026 trap			X3024

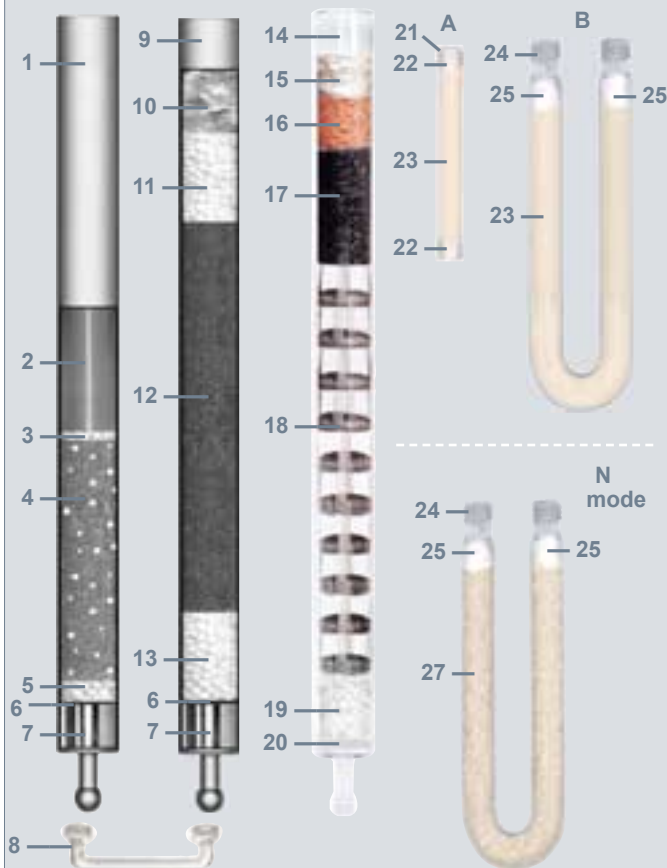
Elementar® rapid MAX N exceed®



Product	Qty	Elementar® part	Part No.
1 Metal crucible		03 002 278	C3064
2 Combustion tube		29.00-1030	C3055
3 Alumina spheres	3 mm	50 008 467	B1093
4 Copper oxide ~ 85 g & alumina spheres ~ 15 g	80 mm	05 001 039	B1122
		50 008 467	B1093
5 Alumina spheres	20 mm	50 008 467	B1093
6 Wire mesh ronde		50 008 449/4	C3046
7 Distance ring		12.01-1032/4	C3048
8 Connecting tube 65 mm		11.00-1331/4	C3022
9 Post combustion tube, steel		25.00-1048	C3042
10 Post combustion reagent for exceed	126 mm	16.02-0056	B1305
11 Quartz wool	10 mm	03 679 908	B1102
12 Copper oxide ~ 180 g, & Pt catalyst 5% ~ 15 g	167 mm	05 001 039	B1122
		03 002 262	B1196
13 Alumina spheres	28 mm	50 008 467	B1093
14 Wire mesh ronde 22mm		12.00-1004/4	C3036
15 Quartz reduction tube			C3049
16 Brass wool	25 mm	38.00-0124	B1304
17 Alumina spheres	15 mm	50 008 467	B1093
18 Stainless steel gauze spacer		12.01-1008/4	E2250
19 Quartz wool	15 mm	03 679 908	B1102
20 Copper wires	55 mm	05 000 699	B1015M
21 Copper oxide wires, fine	185 mm	05 001 039	B1122
22 Alumina spheres	9 mm	50 008 467	B1093
23 Drying tube short		16.00-1037	C3047
24 Cotton wool	10 mm	05 001 715	E2516
25 Sicapent		03 960 352	B1197
26 Drying tube 348 mm		16.00-1012	C3026
27 EmaSorb A granular		03 679 900	B1115
A Prepacked reduction tube			X2507
B Prepacked 1/2 filled sicapent C3047 trap & bottle of EmaSorb			X3028
C Prepacked sicapent filled C3026 trap			X3024

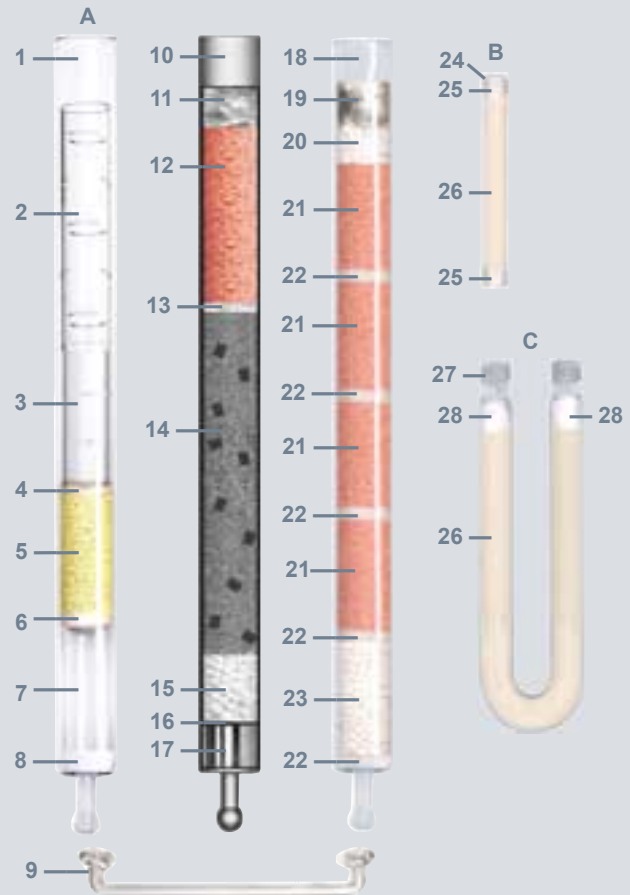
Elementar® vario MACRO

N/CN mode



Elementar® vario MACRO

CNS mode



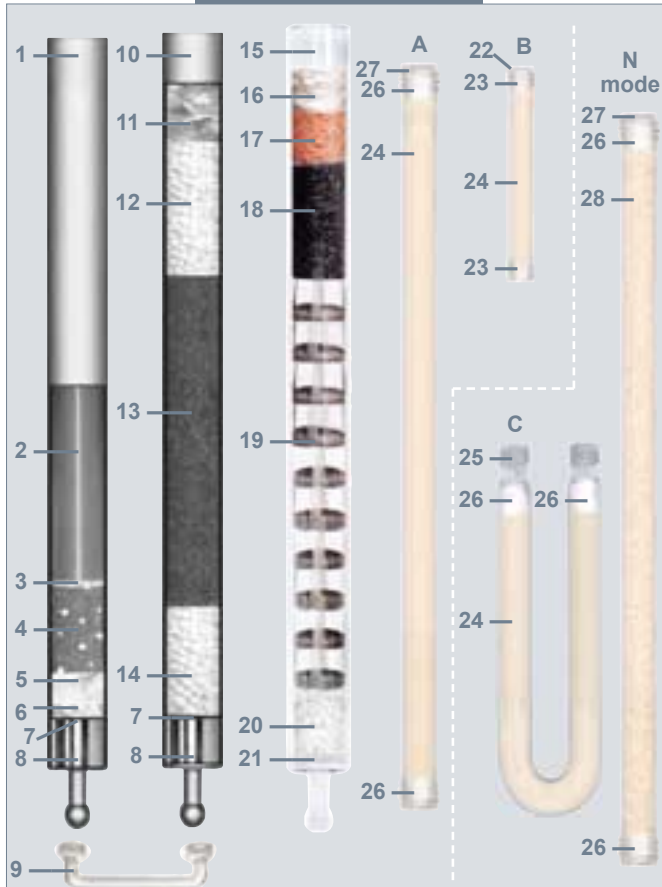
Key

Product	Qty	Elementar® part	Part No.
1 Combustion tube, steel		12.01-1036/4	C3041
2 Ash finger		12.00-1087/4	C3031
3 Alumina spheres	3 mm	50 008 467	B1093
4 Copper oxide ~ 80 g, & alumina spheres ~ 20 g	} 110 mm	05 001 039	B1122
		50 008 467	B1093
5 Alumina spheres	10 mm	50 008 467	B1093
6 Wire mesh ronde 22mm	1	12.00-1004/4	C3036
7 Distance ring	1	12.01-1032/4	C3048
8 Connecting tube 65 mm		11.00-1331/4	C3022
9 Post combustion tube, steel		12.01-1036	C3041
10 Silver wool	30 mm	22 131 365	B1231
11 Alumina spheres	60 mm	50 008 467	B1093
12 Copper wires	80 mm	05 000 699	B1015M
13 Copper oxide wires, fine	150 mm	05 001 039	B1122
14 Alumina spheres	50 mm	50 008 467	B1093
15 Quartz reduction tube		11.00-1150/4	C3009
16 Silver wool	20 mm	22 131 365	B1231
17 Copper wires	20 mm	05 000 699	B1015M
18 Copper oxide wires, fine	50 mm	05 001 039	B1122
19 10 layers tungsten separated by stainless steel gauze spacers	} 20 g each	12.00-0040	B1205
		12.01-1008/4	E2250
20 Alumina spheres	35 mm	50 008 467	B1093
21 Quartz wool	10 mm	03 679 908	B1102
22 Drying tube		22 160 200/4	C3008
23 Filter, diameter 18 mm	1	03 002 399	E1174
24 Sicapent		03 960 352	B1197
25 U-tube		34.00-1339/4	C3038
26 Filter, diameter 18 mm	2	03 002 399	E1174
27 Soda lime granular		05 000 468	B1211
A Prepacked sicapent filled C3008 trap			X3022
B Prepacked sicapent filled C3038 trap			X3023

Product	Qty	Elementar® part	Part No.
1 Combustion/Reduction tube		11.00-1150/4	C3009
2 Protective tube, 105 mm		11.00-1317/4	C3021
3 Ash crucible		11.00-1170/4	C3018
4 Alumina spheres	3 mm	50 008 467	B1093
5 Tungsten (VI) oxide granular	55 mm	11.02-0008	B1217
6 Quartz wool	10 mm	03 679 908	B1102
7 Support tube		11.00-1172/4	C3017
8 Quartz wool	15 mm	03 679 908	B1102
9 Connecting tube 130 mm		25.20-1003	C3025
10 Post combustion tube, steel		12.01-1036/4	C3041
11 Silver wool	20 mm	22 131 365	B1231
12 Copper wires	80 mm	05 000 699	B1015M
13 Quartz wool	5 mm	03 679 908	B1102
14 Copper oxide ~ 180 g, & Pt catalyst 5% ~ 15 g	} 160 mm	05 001 039	B1122
		03 002 262	B1196
15 Alumina spheres	30 mm	50 008 467	B1093
16 Wire mesh ronde 22mm	1	12.00-1004/4	C3036
17 Distance ring	1	12.01-1032/4	C3048
18 Combustion/Reduction tube		11.00-1150/4	C3009
19 Silver wool	25 mm	22 131 365	B1231
20 Alumina spheres	20 mm	50 008 467	B1093
21 Copper wires	50 mm	05 000 699	B1015M
22 Quartz wool	5 mm	03 679 908	B1102
23 Alumina spheres	55 mm	50 008 467	B1093
24 Drying tube		22 160 200/4	C3008
25 Cotton wool	10 mm	05 001 715	E2516
26 Sicapent		03 960 352	B1197
27 U-tube		34.00-1339/4	C3038
28 Cotton wool	20 mm	05 001 715	E2516
A Prepacked CNS/CHNS reaction tube			X2502
B Prepacked sicapent filled C3008 trap			X3022
C Prepacked sicapent filled C3038 trap			X3023

Elementar® vario MACRO cube

CHN/CN/N mode

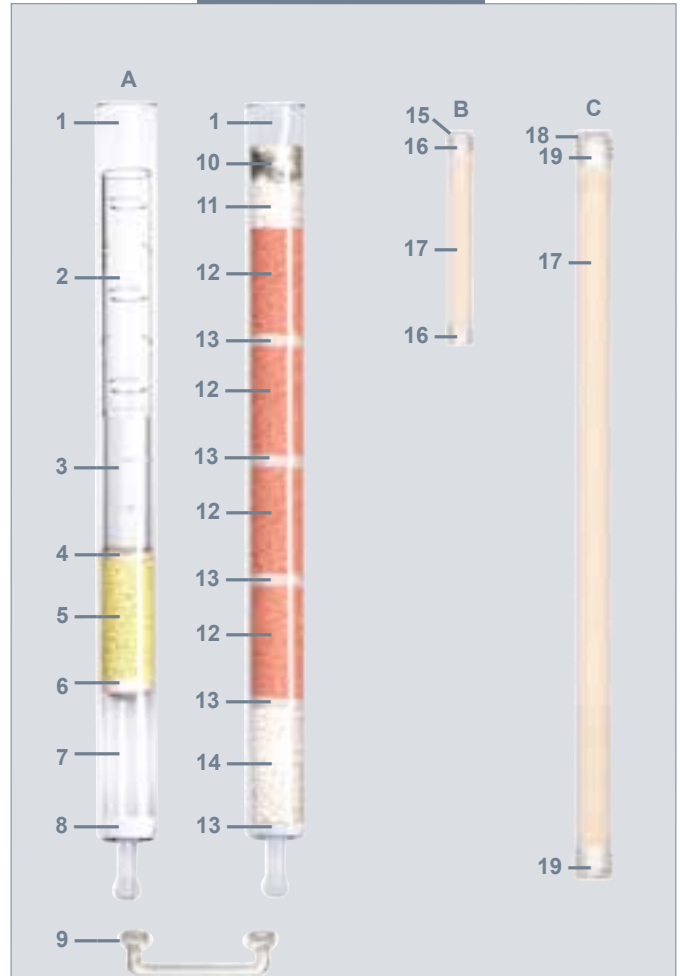


Key

Product	Qty	Elementar® part	Part No.
1 Combustion tube, steel		12.01-1036	C3041
2 Ash finger		11.45-1005	C3062
3 Alumina spheres	2 mm	50 008 467	B1093
4 Copper oxide ~ 30 g, & alumina spheres ~ 7 g	} 40 mm	05 001 039	B1122
		50 008 467	B1093
5 Quartz wool	15 mm	03 679 908	B1102
6 Alumina spheres	5 mm	50 008 467	B1093
7 Wire mesh ronde 22 mm		12.00-1004/4	C3036
8 Distance ring		12.01-1032/4	C3048
9 Connecting tube 65 mm		11.00-1331/4	C3022
10 Post combustion tube, steel		12.01-1036	C3041
11 Silver wool	30 mm	22 131 365	B1231
12 Alumina spheres	60 mm	50 008 467	B1093
13 Copper oxide wires, fine	150 mm	05 001 039	B1122
14 Alumina spheres	50 mm	50 008 467	B1093
15 Quartz reduction tube		11.00-1150/4	C3009
16 Silver wool	20 mm	22 131 365	B1231
17 Copper wires	20 mm	05 000 699	B1015M
18 Copper oxide wires, fine	50 mm	05 001 039	B1122
19 10 layers tungsten separated by stainless steel gauze spacers	} 18g each	12.00-0040	B1205
		11	12.01-1008/4
20 Alumina spheres	35 mm	50 008 467	B1093
21 Quartz wool	10 mm	03 679 908	B1102
22 Drying tube		22 160 200/4	C3008
23 Cotton wool	10 mm	05 001 715	E2516
24 Sicapent		03 960 352	B1197
25 U-tube		34.00-1339/4	C3038
26 Cotton wool	20 mm	05 001 715	E2516
27 Drying tube 348 mm		16.00-1012	C3026
28 Soda lime granular			B1211
A Prepacked sicapent filled C3026 trap			X3024
B Prepacked sicapent filled C3008 trap			X3022
C Prepacked sicapent filled C3038 trap			X3023

Elementar® vario MACRO cube

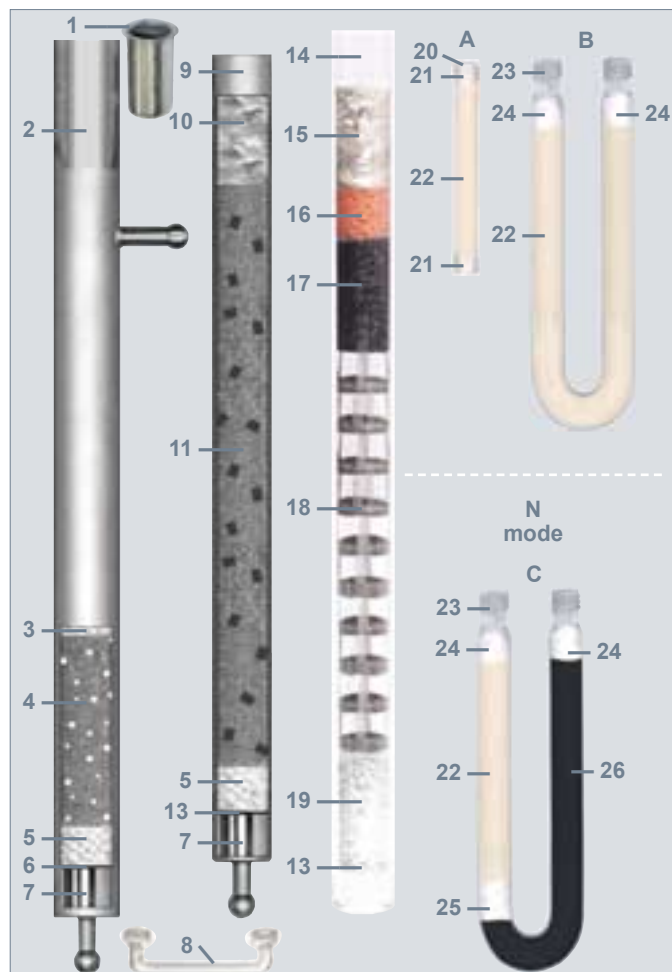
CNS/CHNS mode



Key

Product	Qty	Elementar® part	Part No.
1 Combustion/Reduction tube		11.00-1150/4	C3009
2 Protective tube, 105 mm		11.00-1317/4	C3021
3 Ash crucible		11.00-1170/4	C3018
4 Alumina spheres	3 mm	50 008 467	B1093
5 Tungsten (VI) oxide granular	55 mm	11.02-0008	B1217
6 Quartz wool	10 mm	03 679 908	B1102
7 Support tube		11.00-1172/4	C3017
8 Quartz wool	15 mm	03 679 908	B1102
9 Connecting tube 65 mm		11.00-1331/4	C3022
10 Silver wool	15 mm	22 131 365	B1231
11 Alumina spheres	25 mm	50 008 467	B1093
12 Copper wires	50 mm	05 000 699	B1015M
13 Quartz wool	5 mm	03 679 908	B1102
14 Alumina spheres	55 mm	50 008 467	B1093
15 Drying tube		22 160 200/4	C3008
16 Cotton wool	10 mm	05 001 715	E2516
17 Sicapent		03 960 352	B1197
18 Drying tube 348 mm		16.00-1012	C3026
19 Cotton wool	20 mm	05 001 715	E2516
A Prepacked CNS/CHNS reaction tube			X2502
B Prepacked sicapent filled C3008 trap			X3022
C Prepacked sicapent filled C3026 trap			X3024

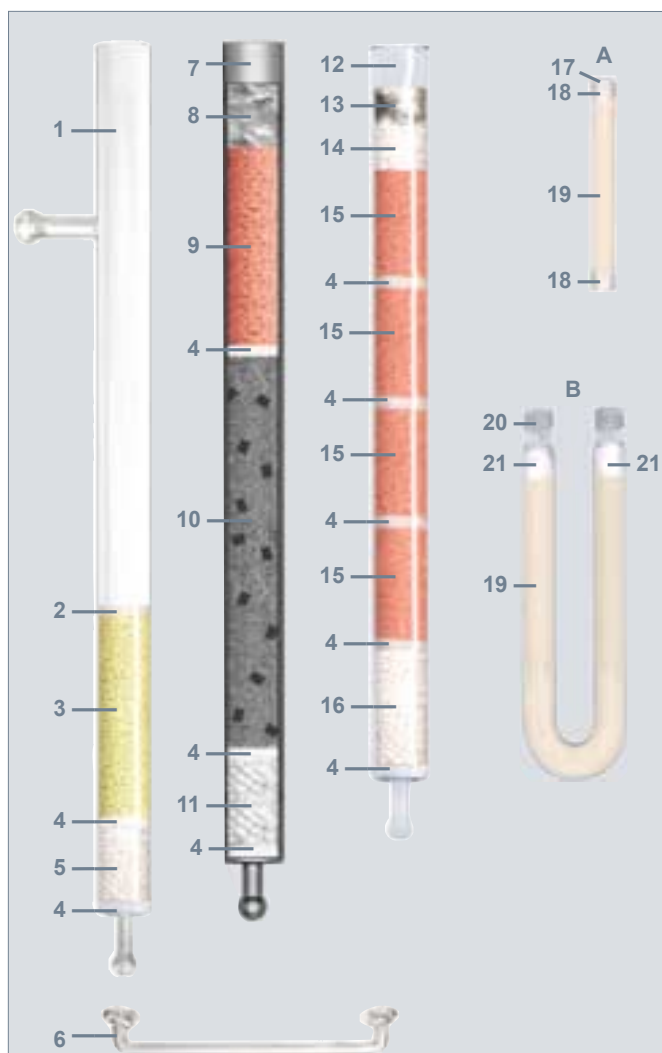
Elementar® vario MAX CN



Key

Product	Qty	Elementar® part	Part No.
1 Metal crucible		03 002 278	C3064
2 Combustion tube		25.00-1030	C3043
3 Alumina spheres	3 mm	50 008 467	B1093
4 Copper oxide ~ 92 g & alumina spheres ~ 20 g	} 95 mm	05 001 039	B1122
		50 008 467	B1093
5 Alumina spheres	20 mm	50 008 467	B1093
6 Wire mesh ronde 26.8 mm		50 008 449/4	C3046
7 Distance ring		12.01-1032/4	C3048
8 Connecting tube 65 mm		11.00-1331/4	C3022
9 Post combustion tube, steel		25.00-1048	C3042
10 Silver wool	45 mm	22 131 365	B1231
11 Copper oxide ~ 305 g, & Pt catalyst 5% ~ 30 g	} 270 mm	05 001 039	B1122
		03 002 262	B1196
13 Wire mesh ronde 22 mm		12.00-1004/4	C3036
14 Quartz reduction tube		25.00-0017	C3040
15 Silver wool	40 mm	22 131 365	B1231
16 Copper wires	20 mm	05 000 699	B1015M
17 Copper oxide wires, fine	50 mm	05 001 039	B1122
18 10 layers tungsten separated by stainless steel gauze spacers	} 20g each 11	12.00-0040	B1205
		12.01-1008/4	E2250
19 Alumina spheres	55 mm	50 008 467	B1093
20 Drying tube		22 160 200/4	C3008
21 Filter, diameter 18 mm	1	03 002 399	E1174
22 Sicapent		03 960 352	B1197
23 U-tube		34.00-1339/4	C3038
24 Filter, diameter 18 mm	2	03 002 399	E1174
25 Quartz wool	20 mm	03 679 908	B1102
26 EMASorb A Granular (N mode only)		03 679 900	B1115
A Prepacked sicapent filled C3008 trap			X3022
B Prepacked sicapent filled C3038 trap			X3023
C Prepacked 1/2 filled sicapent C3038 trap & bottle of EmaSorb			X3027

Elementar® vario MAX CNS

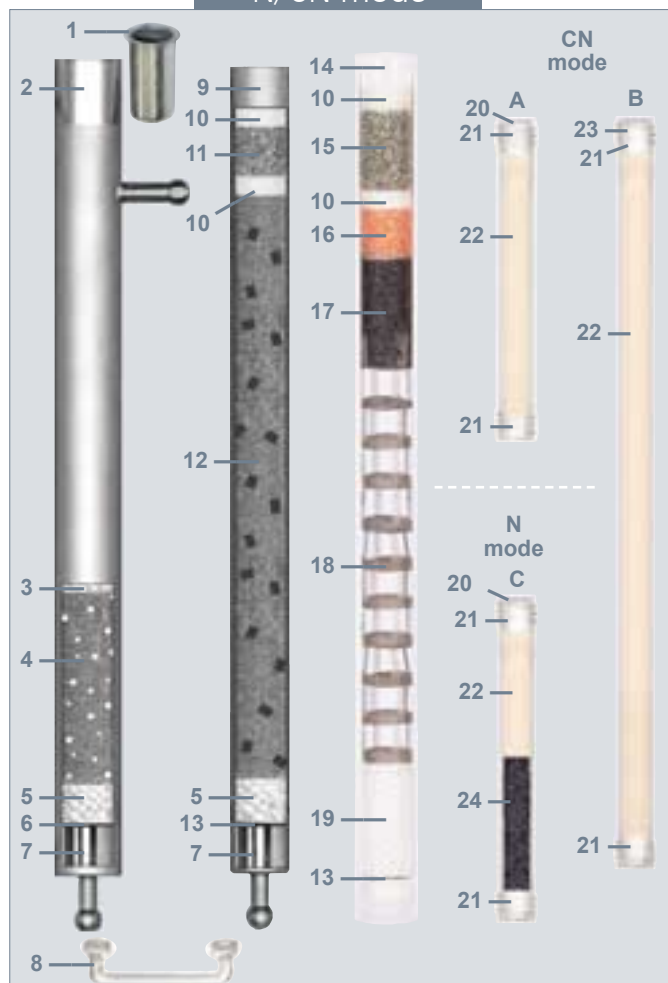


Key

Product	Qty	Elementar® part	Part No.
1 Combustion tube		25.00-1028	C3044
2 Alumina spheres	3 mm	50 008 467	B1093
3 Tungsten (VI) oxide granular	95 mm	11.02-0008	B1217
4 Quartz wool	5 mm	03 679 908	B1102
5 Alumina spheres	35 mm	50 008 467	B1093
6 Connecting tube 130 mm		25.20-1003	C3025
7 Post combustion tube, steel		25.00-1048	C3042
8 Silver wool	30 mm	22 131 365	B1231
9 Copper wires	90 mm	05 000 699	B1015M
10 Copper oxide ~ 305 g, & Pt catalyst 5% ~ 30 g	} 175 mm	05 001 039	B1122
		03 002 262	B1196
11 Alumina spheres	40 mm	50 008 467	B1093
12 Reduction tube		11.00-1150/4	C3009
13 Silver wool	25 mm	22 131 365	B1231
14 Alumina spheres	20 mm	50 008 467	B1093
15 Copper wires	50 mm	05 000 699	B1015M
16 Alumina spheres	55 mm	50 008 467	B1093
17 Drying tube		22 160 200/4	C3008
18 Filter, diameter 18 mm	1	03 002 399	E1174
19 Sicapent		03 960 352	B1197
20 U-tube		34.00-1339/4	C3038
21 Filter, diameter 18 mm	2	03 002 399	E1174
A Prepacked sicapent filled C3008 trap			X3022
B Prepacked sicapent filled C3038 trap			X3023

Elementar® vario MAX cube

N/CN mode

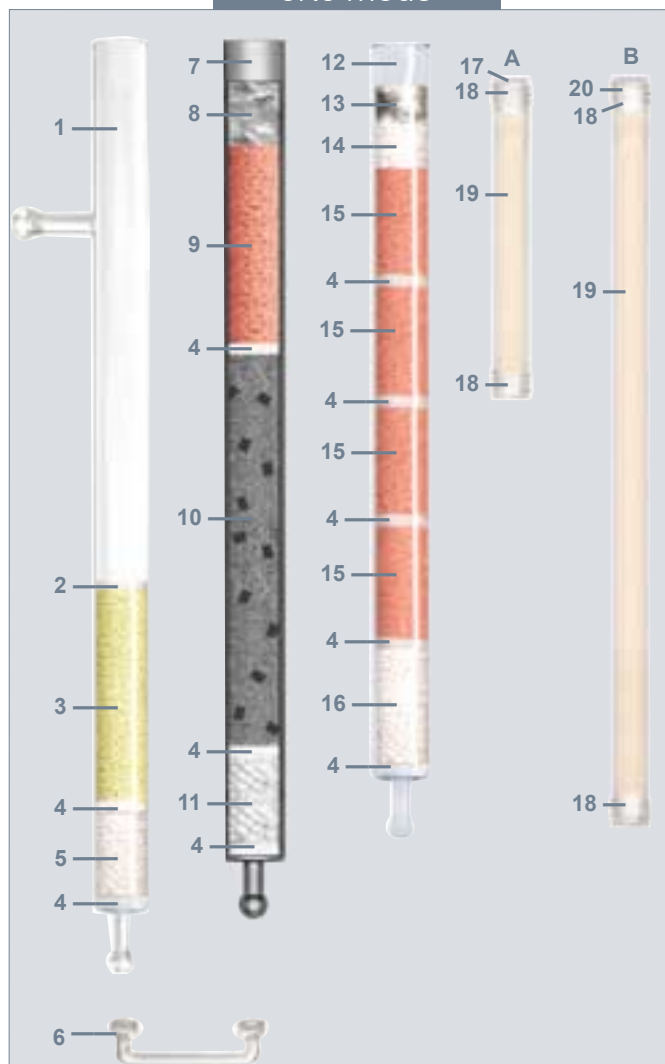


Key

Product	Qty	Elementar® part	Part No.
1 Metal crucible		03 002 278	C3064
2 Combustion tube		29.00-1030	C3055
3 Alumina spheres	3 mm	50 008 467	B1093
4 Copper oxide ~ 85 g & alumina spheres ~ 15 g	} 80 mm	05 001 039	B1122
		50 008 467	B1093
5 Alumina spheres	20 mm	50 008 467	B1093
6 Wire mesh ronde 26.8 mm		50 008 449/4	C3046
7 Distance ring		12.01-1032/4	C3048
8 Connecting tube 65 mm		11.00-1331/4	C3022
9 Post combustion tube, steel		25.00-1048	C3042
10 Quartz wool	10 mm	03 679 908	B1102
11 Zinc	25 mm	29.00-0092	B1406
12 Copper oxide ~ 275 g, & Pt catalyst 5% ~ 30 g	} 270 mm	05 001 039	B1122
		03 002 262	B1196
13 Wire mesh ronde 22 mm		12.00-1004/4	C3036
14 Quartz reduction tube		25.00-0017	C3040
15 Zinc	35 mm	29.00-0092	B1406
16 Copper wires	20 mm	05 000 699	B1015M
17 Copper oxide wires, fine	50 mm	05 001 039	B1122
18 10 layers tungsten separated by stainless steel gauze spacers	} 19 g each	12.00-0040	B1205
		11	12.01-1008/4
19 Alumina spheres	50 mm	50 008 467	B1093
20 Drying tube		16.00-1037	C3047
21 Cotton wool	20 mm	05 001 715	E2516
22 Sicapent		03 960 352	B1197
23 Drying tube 348 mm		16.00-1012	C3026
24 EMASorb A Granular (N mode only)		03 679 900	B1115
A Prepacked sicapent filled C3047 trap			X3025
B Prepacked sicapent filled C3026 trap			X3024
C Prepacked ½ filled sicapent C3047 trap & bottle of EmaSorb			X3028

Elementar® vario MAX cube

CNS mode

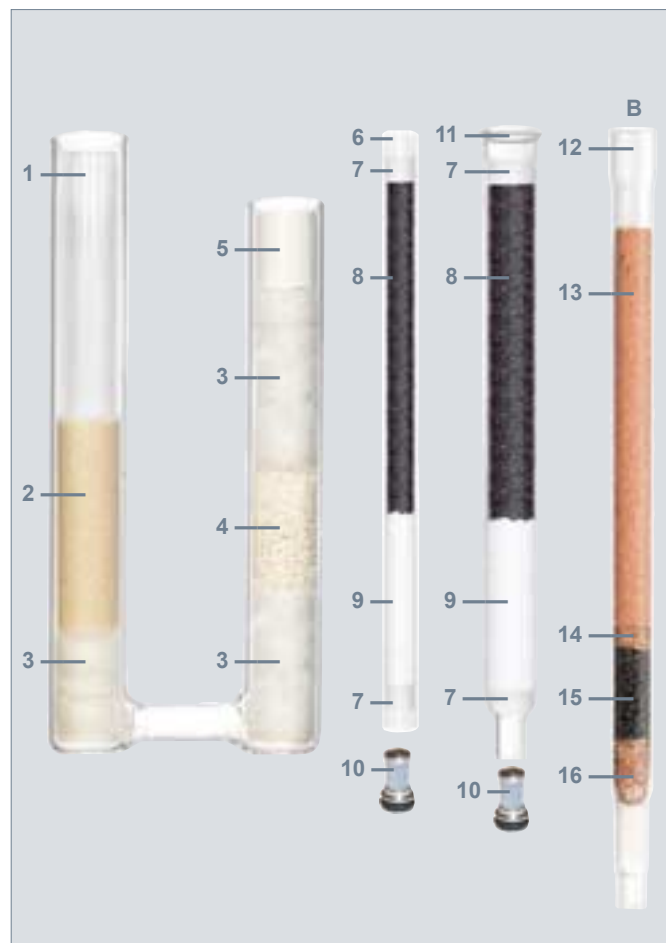
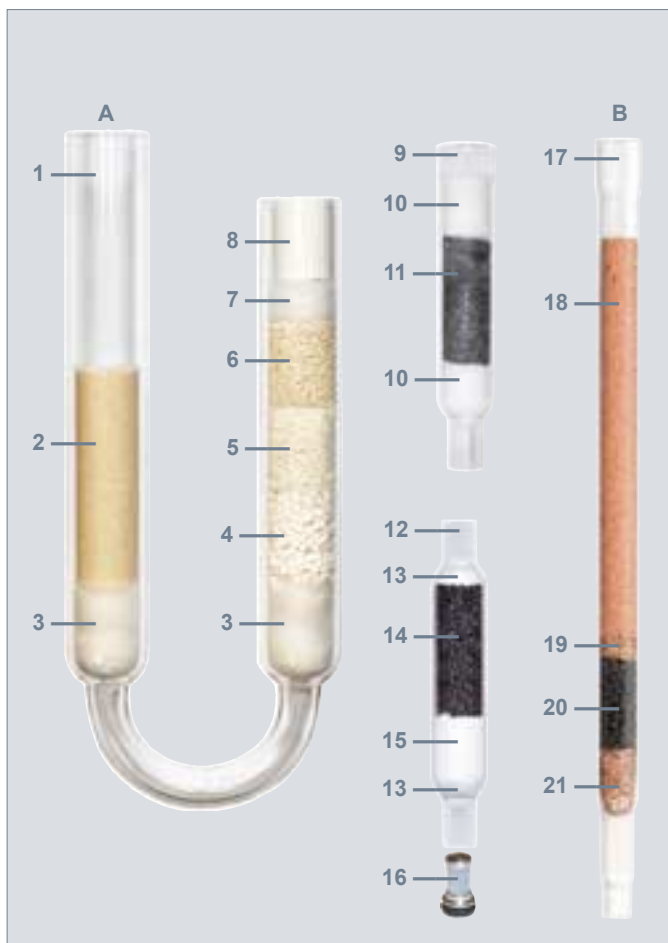


Key

Product	Qty	Elementar® part	Part No.
1 Combustion tube		25.00-1028	C3044
2 Alumina spheres	3 mm	50 008 467	B1093
3 Tungsten (VI) oxide granular	95 mm	11.02-0008	B1217
4 Quartz wool	5 mm	03 679 908	B1102
5 Alumina spheres	35 mm	50 008 467	B1093
6 Connecting tube 65 mm		11.00-1331/4	C3022
7 Post combustion tube, steel		25.00-1048	C3042
8 Silver wool	30 mm	22 131 365	B1231
9 Copper wires	90 mm	05 000 699	B1015M
10 Copper oxide ~ 305 g, & Pt catalyst 5% ~ 30 g	} 175 mm	05 001 039	B1122
		03 002 262	B1196
11 Alumina spheres	40 mm	50 008 467	B1093
12 Reduction tube		11.00-1150/4	C3009
13 Silver wool	25 mm	22 131 365	B1231
14 Alumina spheres	20 mm	50 008 467	B1093
15 Copper wires	50 mm	05 000 699	B1015M
16 Alumina spheres	55 mm	50 008 467	B1093
17 Drying tube		16.00-1037	C3047
18 Cotton wool	20 mm	05 001 715	E2516
19 Sicapent		03 960 352	B1197
20 Drying tube 348 mm		16.00-1012	C3026
A Prepacked sicapent filled C3047 trap			X3025
B Prepacked sicapent filled C3026 trap			X3024

LECO® FP-528

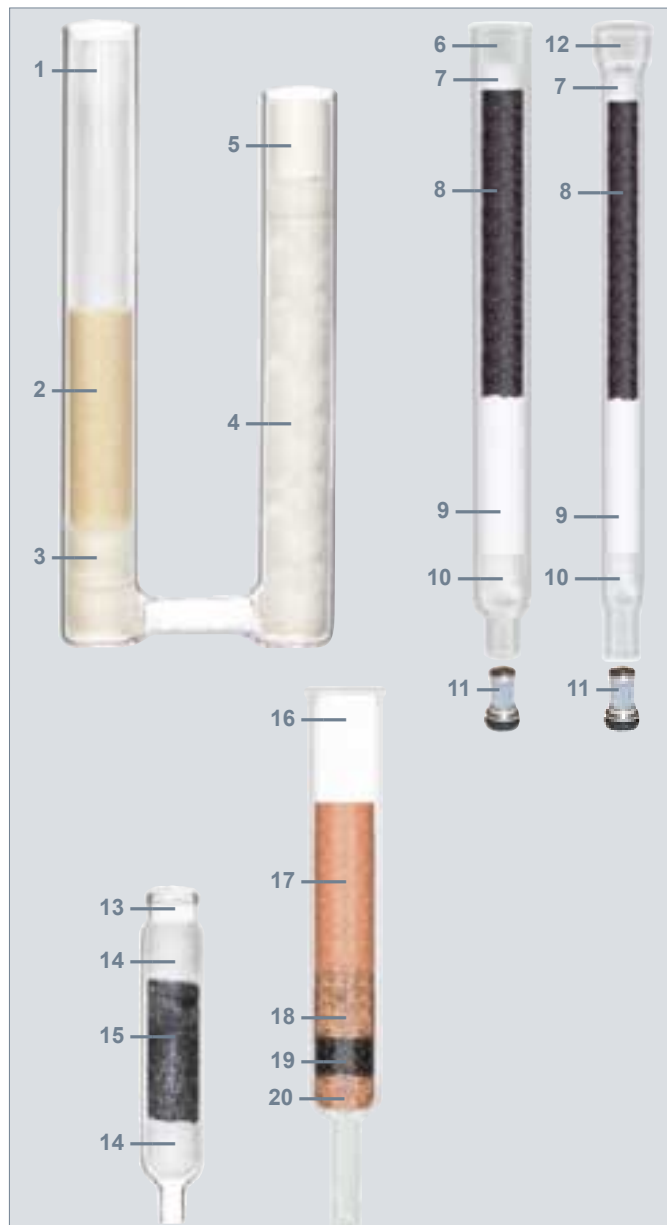
LECO® CHN628 Series



		Key		
Product	Qty	Leco® part	Part No.	
1	Combustion tube	616-108	C4057	
2	Porous crucible	614-961-110	C4065	
3	Quartz wool strip	608-379	B1192	2
4	Aluminium oxide pellets	502-188	B1163	40 cc
5	Furnace reagent	501-609	B1191	30 cc
6	Magnesium oxide beads	502-359	B1190	30 cc
7	Quartz wool strip	608-379	B1192	1
8	Honeycomb ceramic	780-899	C4058	1
9	Furnace filter tube	601-390	C4037	
10	Glass wool	501-081	B1166	25 mm
11	Iron wool	502-310	B1165	~6g
12	Reagent tube	775-601	C4004	
13	Glass wool	501-081	B1166	20 mm
14	EMASorb A Granular	502-174	B1162	2/3 tube
15	EMADrone magnesium perchlorate	501-171	B1161	1/3 tube
16	Screen filter	775-306	E2235	
17	Quartz reduction tube	619-154	C4339	
18	Copper wires	502-705	B1015M	185 mm
19	Copper turnings	502-656	B1107	5 mm
20	Nitrogen catalyst pellets	502-049	B1061	45 mm
21	Copper turnings	502-656	B1107	25 mm
A	Prepacked combustion tube		X3010	
B	Prepacked reduction tube		X3000	

		Key		
Product	Qty	Leco® part	Part No.	
1	Combustion tube	619-065	C4338	
2	Porous crucible	614-961-110	C4065	
3	Quartz wool strip	608-379	B1192	3
4	Furnace reagent	501-609	B1191	30 cc
5	Honeycomb ceramic	780-899	C4058	1
6	Reagent tube	619-268	C4341	
7	Glass wool	763-265	B1166	13 mm
8	EMASorb A Granular	502-174	B1162	2/3 tube
9	EMADrone magnesium perchlorate	501-171	B1161	1/3 tube
10	Screen filter	775-306	E2235	
11	Reagent tube	633-103-225	C4332	
12	Quartz reduction tube	619-154	C4339	
13	Copper wires	502-705	B1015M	185 mm
14	Copper turnings	502-656	B1107	5 mm
15	Nitrogen catalyst pellets	502-049	B1061	45 mm
16	Copper turnings	502-656	B1107	25 mm
B	Prepacked reduction tube		X3000	

LECO® 828 Series



Key

Product	Qty	Leco® part	Part No.
1 Combustion tube		619-065	C4338
2 Porous crucible		614-961-110	C4065
3 Quartz wool strips	3	608-379	B1192
4 Quartz wool strips	9	608-379	B1192
5 Honeycomb ceramic	1	780-899	C4058
6 Carrier gas scrubber tube		625-603-353	C4362
7 Glass wool	13 mm	501-081	B1166
8 EMASorb A Granular	135 mm	502-174	B1162
9 EMADrone magnesium perchlorate	70 mm	501-171	B1161
10 Glass wool	25 mm	501-081	B1166
11 Screen filter		775-306	E2235
12 Aliquot scrubber tube		619-591-740	C4346
13 Filter tube		619-316	C4344
14 Glass wool	25 mm	501-081	B1166
15 Iron wool	~8g	502-310	B1165
16 Quartz reduction tube		625-603-030	C4361
17 Copper wires	80 mm	502-705	B1015M
18 Copper turnings	35 mm	502-656	B1107
19 Nitrogen catalyst pellets	20 mm	502-049	B1061
20 Copper turnings	20 mm	502-656	B1107

LECO® 928 Series

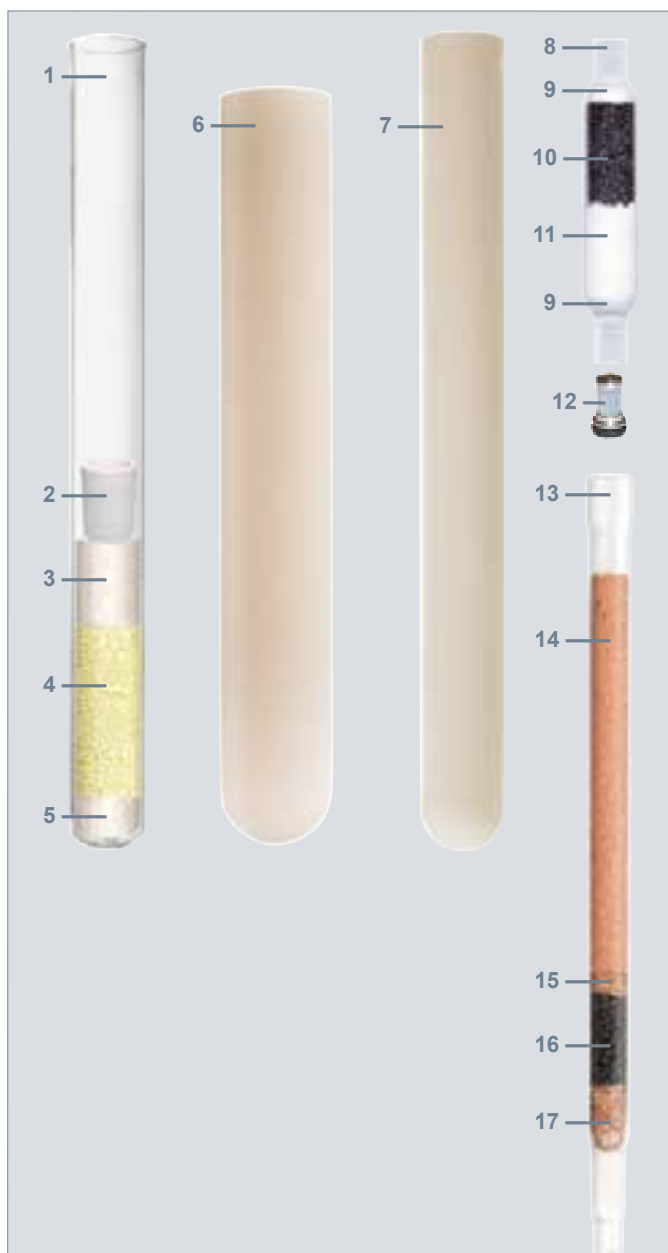


Key

Product	Qty	Leco® part	Part No.
1 Outer combustion tube		625-601-554	C4230
2 Boat stop, ceramic		606-308	C4040
3 Inner combustion tube		625-601-555	C4231
4 Carrier gas scrubber tube		625-603-353	C4362
5 Glass wool	13 mm	501-081	B1166
6 EMASorb A Granular	135 mm	502-174	B1162
7 EMADrone magnesium perchlorate	70 mm	501-171	B1161
8 Glass wool	25 mm	501-081	B1166
9 Screen filter		775-306	E2235
10 Aliquot scrubber tube		619-591-740	C4346
11 Quartz reduction tube		625-603-030	C4361
12 Copper wires	80 mm	502-705	B1015M
13 Copper turnings	35 mm	502-656	B1107
14 Nitrogen catalyst pellets	20 mm	502-049	B1061
15 Copper turnings	20 mm	502-656	B1107

LECO® CHN-1000/CNS-1000

LECO® FP/NS/CN/CNS-2000



Key				
	Product	Qty	Leco® part	Part No.
1	Inner combustion tube		608-342	C4053
2	Ceramic crucible		529-026	C4039
3	Quartz wool strip	40 mm	608-379	B1192
4	Furnace reagent	75 mm	502-311	*
5	Quartz wool strip	20 mm	608-379	B1192
6	Outer combustion tube		608-344	C4052
7	Optional ceramic inner tube		608-505	C4059
8	Reagent tube		775-601	C4004
9	Glass wool	13 mm	501-081	B1166
10	EMASorb A Granular	1/2 tube	502-174	B1162
11	EMADrone magnesium perchlorate	1/2 tube	501-171	B1161
12	Screen filter		775-306	E2235
13	Quartz reduction tube		601-437	C4023
14	Copper wires	185 mm	502-189	B1015M
15	Copper turnings	5 mm	501-621	B1107
16	Nitrogen catalyst pellets	45 mm	502-049	B1061
17	Copper turnings	25 mm	501-621	B1107
	* New product coming soon			

Key				
	Product	Qty	Leco® part	Part No.
1	Outer combustion tube		606-309	C4041
2	Boat stop, ceramic		606-308	C4040
3	Inner combustion tube		606-313	C4042
4	Primary/secondary furnace filter tube		606-327	C4043
5	Glass wool	25 mm	501-081	B1166
6	Iron wool	75 mm	502-310	B1165
7	Glass wool	130 mm	501-081	B1166
8	Reagent tube		775-601	C4004
9	Glass wool	20 mm	501-081	B1166
10	EMASorb A Granular	2/3 tube	502-174	B1162
11	EMADrone magnesium perchlorate	1/3 tube	501-171	B1161
12	Screen filter		775-306	E2235
13	Quartz reduction tube		606-437	C4023
14	Copper wires	185 mm	502-304	B1015M
15	Copper turnings	5 mm	501-621	B1107
16	Nitrogen catalyst pellets	45 mm	502-049	B1061
17	Copper turnings	25 mm	501-621	B1107

LECO® TruSpec CHN



Product	Qty	Leco® part	Part No.
1 Combustion tube		619-065	C4338
2 Porous crucible		614-961-110	C4065
3 Quartz wool strip	2	608-379	B1192
4 Aluminium oxide pellets	40 cc	502-188	B1163
5 Furnace reagent	30 cc	501-609	B1191
6 Magnesium oxide beads	30 cc	502-359	B1190
7 Honeycomb ceramic	1	780-899	C4058
8 Reagent tube		619-268	C4341
9 Glass wool	13mm	763-265	B1166
10 EMASorb A Granular	2/3 tube	502-174	B1162
11 EMADrone magnesium perchlorate	1/3 tube	501-171	B1161
12 Screen filter		775-306	E2235
13 Reagent tube		617-548	C4332
14 Quartz reduction tube		619-154	C4339
15 Copper wires	185 mm	502-705	B1015M
16 Copper turnings	5 mm	502-656	B1107
17 Nitrogen catalyst pellets	45 mm	502-049	B1061
18 Copper turnings	25 mm	502-656	B1107
19 Furnace filter tube		601-390	C4037
20 Glass wool	25 mm	501-081	B1166
21 Iron wool	~6g	502-310	B1165
A Prepacked combustion tube			X3015
B Prepacked reduction tube			X3000

LECO® TruMac series



Product	Qty	Leco® part	Part No.
1 Outer combustion tube		625-601-554	C4230
2 Boat stop, ceramic		606-308	C4040
3 Inner combustion tube		625-601-555	C4231
4 Primary furnace filter tube		625-602-539	C4043
5 Glass wool	25 mm	501-081	B1166
6 Iron wool	75 mm	502-310	B1165
7 Primary filter tube		619-455	C4069
8 EMADrone magnesium perchlorate	100 mm	501-171	B1161
9 Glass wool	25 mm	501-081	B1166
10 Secondary filter/reagent tube		633-103-225	C4332
11 Glass wool	230 mm	501-081	B1166
12 Reagent tube		619-268	C4341
13 Glass wool	20 mm	501-081	B1166
14 EMASorb A Granular	150 mm	502-174	B1162
15 EMADrone magnesium perchlorate	50 mm	501-171	B1161
16 Screen filter		775-306	E2235
17 Quartz reduction tube		619-154	C4339
18 Copper wires	185 mm	502-705	B1015M
19 Copper turnings	5 mm	502-656	B1107
20 Nitrogen catalyst pellets	45 mm	502-049	B1061
21 Copper turnings	25 mm	502-656	B1107
A Prepacked reduction tube			X3000

Gerhardt DUMATHERM



Product	Key		
	Qty	Gerhardt part	Part No
1 Quartz reaction tube		14-0018, 14-0203	C1140
2 Quartz wool pads large	10 mm	14-0275	B1356
3 HT catalyst	120 mm	14-0011	B1301
4 LT catalyst	50 mm	14-0014	B1302
5 Quartz wool pads small	40 mm	14-0274	B1355
6 Copper for Dumatherm	400 mm	14-0046, 14-0246	B1352
A Prepacked reaction tube		14-0024, 14-0244	X1270
B Prepacked reaction tube – chromium free		14-0245	X1272
C CO ₂ adsorber tube with adsorbent		14-0021	X4030

The use of Elementar® part numbers is intended for convenience only, and does not imply that the products are of Elementar® origin. All Elementar Microanalysis products are guaranteed to be of high quality and are deemed to be suitable alternatives.

Elementar® part	Description	Pack	Cat. No.
03 001 118	Sulphanilic Acid OAS	5g	B2147
03 001 248	Forceps Stainless Steel Curved Points	1	E2016
03 002 262	Platinum Catalyst 5% Pt	30g	B1196
03 002 262	Platinum Catalyst 5% Pt	150g	B1308
03 002 268	O-ring, 32mm x 3mm	1	E1172
03 002 278	Metal crucibles	100	C3064
03 002 395	O-ring for gripper arm	1	E1171
03 002 399	Filter Diameter 18mm	1	E1174
03 002 399	Filter Diameter 18mm	10	E1174-10
03 002 607	Shaft Seal	1	E1555
03 002 850	O-ring Viton, 8mm x 2mm	1	E1176
03 653 118	O-ring Silicone Rubber	1	E1085
03 654 627	O-ring Viton Rubber, 20mm x 2mm	1	E1073
03 654 627	O-ring Viton Rubber, 20mm x 2mm	10	E1073-10
03 654 629	O-ring Silicone Rubber, 25 x 2mm	1	E1066
03 654 701	O-ring Silicone Rubber, 4mm x 4mm	1	E1082
03 679 900	EMASorb A Granular 0.8 to 1.6mm 14 to 25 mesh CO2 Absorbant	200g	B1115
03 679 900	EMASorb A Granular 0.8 to 1.6mm 14 to 25 mesh	500g	B1162
03 679 901	EMADrone Magnesium Perchlorate	454g	B1161
03 679 905	Copper Oxide Wires (Coarse) Coarse wires 6 x 0.65mm	250g	B1218
03 679 907	Silica (Quartz) Chips Granular 1 to 2mm	100g	B1214
03 679 908	Silica (Quartz) Wool Very Fine	10g	B1208
03 679 915	Cerium Dioxide Granular	100g	B1219
03 679 942	Acetanilide OAS	5g	B2114
03 950 005	Spatula Micro Spoon Formed Bent	1	E2291
03 960 352	Sicapent	30g	B1297
03 960 352	Sicapent (2.8L)	500g	B1197
03 968 006	Vacuum Grease	50g	E2240
03 002 262	Platinum Catalyst 5% Pt	150g	B1308
03 960 352	Sicapent	30g	B1297
05 000 044	Cap GL 18	1	E2518
05 000 046	Cap GL 25	1	E2519
05 000 049	GL 14 Screw cap	1	E2517
05 000 086	Alumina (Aluminium Oxide) Wool Fine	20g	B1089
05 000 087	Ash Finger Ceramic rapid N	1	C3030
05 000 088	Oxygen Lance 140mm	1	C3011
05 000 094	Gloves	1 Pair	E2505
05 000 095	O-ring Viton Rubber, 22mm x 2mm	1	E1074
05 000 095	O-ring Viton Rubber, 22mm x 2mm	10	E1074-10
05 000 096	O-ring Viton Rubber, 18mm x 2mm	1	E1072
05 000 247	Seal Viton Rubber for oxygen lances - 10 x 3mm seals	10	E1049
05 000 247	Seal for Oxygen lance viton rubber	1	E1050
05 000 247	Seal for Oxygen lance viton rubber	10 (1m)	E1050-10
05 000 248	O-ring Silicone Rubber	1	E1083
05 000 249	O-ring Viton Rubber, 4.5mm x 1.5mm	1	E1067
05 000 249	O-ring Viton Rubber, 4.5mm x 1.5mm	10	E1067-10
05 000 311	Smooth Wall Tin Capsules Round Base 20 x 8mm	100	D4009
05 000 353	Quadring Viton Rubber, 7.65mm x 1.78mm	1	E1054
05 000 353	Quadring Viton Rubber, 7.65mm x 1.78mm	10	E1054-10
05 000 354	Oxygen Lance 150mm	1	C3012
05 000 359	O-ring Viton Rubber, 9.19mm x 2.62mm	1	E1070
05 000 371	O-ring Viton Rubber, 24mm x 3mm	1	E1076
05 000 372	O-ring Viton Rubber, 38mm x 2.5mm	1	E1077
05 000 416	O-ring Viton Rubber, 7.5mm x 2.5mm	1	E1069
05 000 416	O-ring Viton Rubber, 7.5mm x 2.5mm	10	E1069-10
05 000 425	O-ring, 5mm x 1.5mm	1	E1173
05 000 429	Tin Foil Cones Standard Weight	100	D9001
05 000 469	Cerium Dioxide Fused Granular	100g	B1270

Cross references

Macro CN/CHN/CNS/N/protein analysis

Elementar® part	Description	Pack	Cat. No.
05 000 568	O-ring, 16mm x 3mm	1	E1175
05 000 568	O-ring, 16mm x 3mm	10	E1175-10
05 000 658	Oxygen lance 170mm	1	C3013
05 000 699	Copper Wires Fine Wires Reduced 4 x 0.5mm	100g	B1015M
05 000 880	Manganese Dioxide Sulphur Reduction in U-Tube	10g	B1204
05 000 900	Silica (Quartz) Chips Granular 2 to 4mm	50g	B1215
05 001 013	Rapid Caps	190	D1117
05 001 039	Copper Oxide Wires Fine Wires 4 x 0.5mm	250g	B1122
05 001 067	Glutamic acid OAS	250g	B1405
05 001 169	Phenylalanine OAS	25g	B2148
05 001 432	Brass Brush	1	E2520
05 001 715	Cotton Wool	50g	E2516
050 00 359	O-ring Viton Rubber, 9.19mm x 2.62mm	10	E1070-10
05001053	O-ring for Spring Flange, 18mm x 2.5mm	1	E1556
11.00-1170/4	Ash finger	1	C3018
11 001 172/4	Support tube 65mm	1	C3017
11 001 317/4	Protection tube Vario EL	1	C3021
11 001 317/4	Protection tube Vario EL (alt to C3021 without slits)	1	C3059
11.00-0053	Set of ball valve half shells vario EL, vario Macro (non-cube)	1	E2530
11.00-0500/4	Manually operated drill	1	E2521
11.00-1150/4	Combustion/Reduction Tube	1	C3009
11.00-1331/4	Connecting tube transparent silica 65mm (Includes O-rings)	1	C3022
11.00-1364/4	support rod, reduction tube 65mm	1	C3053
11.02-0008	Tungsten (VI) Oxide Granular	60g	B1217
11.02-0017	Tungsten (VI) Oxide Powder Fine Powder	25g	B4013
11.02-0024	Tungsten (VI) Oxide Powder	90g	B4014
11.02-1036/4	Ash finger	1	C3024
11.02-1036/4	Ash finger pack of 10	10	C3070
11.45-1005/4	Ash Finger 90mm Stainless Steel	1	C3062
11.45-1012/4	Oxygen lance 190mm	1	C3014
11.00-1170/4	Ash Finger	10	C3060
11.00-1317/4	Protection tube vario EL	1	C3021
11.00-1317/4	Protection tube Vario EL (alternative to C3021 11.00-1317/4 without slits)	1	C3059
12.00-0040	Tungsten Granulated	500g	B1205
12.00-0040	Tungsten Granulated (Bulk)	2.5 kg	B1210
12.00-1004/4	Wire Mesh Ronde 22mm	1	C3036
12.00-1004/4	Wire Mesh Ronde 22mm	10	C3036-10
12.00-1005/4	Wire Mesh Ronde 18mm	1	C3035
12.00-1087/4	Ash Finger Stainless Steel	1	C3031
12.01-0032	Tin Foil Squares Standard Weight 37 x 37mm	400	D1116
12.01-0045	Tungsten Kit Complete 500g of Tungsten Granulated +25 Stainless Gauzes		B1203
12.01-0057	Set of ball valve half shells Rapid N (non-cube)	1	E2531
12.01-1008/4	Stainless Steel Gauze Spacers Tungsten System	25	E2250
12.01-1012/4	Tin Foil Squares Standard Weight 50 x 50mm	100	D1115
12.01-1032/4	Distance ring	1	C3048
12.01-1036/4	Combustion Tube S/S (From Serial No. 12991001)	1	C3041
15.00-1319	Ceramic crucible	1	C3027
15.40-1002	support rod reduction tube 110mm	1	C3057
16.00-1012	Drying tube 348 mm GL25	1	C3026
16.00-1037	Drying tube short	1	C3047
20.00-5013	Consumable kit for 4000 solid samples vario MACRO cube (CHN CN N)	1	X6002
21.00-0008	Set of ball valve half shells 14mm for vario MACRO cube	1	E2533
22 131 365	Silver Wool 0.05mm Fine Wire	50g	B1231
22 160 200/4	Drying Guard Tube Borosilicate Elementar	1	C3008
22 160 204/4	Drying tube with GL14 end caps	1	C3066
23.00-0080	U Tube GL14	1	C3123
25 00-1048	Post Combustion Tube	1	C3042
25.00-0017	Quartz Reduction/Tungsten Tube 29mm (From Serial No. 12991001)	1	C3040
25.00-0029	Gripper Arm With O-rings	1	E2515

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Macro CN/CHN/CNS/N/protein analysis

Cross references

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Elementar® part	Description	Pack	Cat. No.
25.00-0120	Glass connection tube no20	1	C3128
25.00-0121	Glass connection tube no21	1	C3127
25.00-1028	Combustion tube quartz vario MAX	1	C3044
25.00-1030	Combustion Tube	1	C3043
25.00-1123	Ceramic Crucible	100	C3058
25.00-5042	Consumable kit - vario MAX CHN 2000 samples Kit.	1 kit	X6000
25.20-0004	Gripper arm with O-rings For vario MAX in CNS mode	1	E2522
25.20-1003	Connecting tube transparent silica 130mm (Includes O-rings)	1	C3025
29.00-0029	Gripper arm with O-rings for vario MAX cube	1	E2523
29.00-0071	Drying tube	1	C3124
29.00-0092	Zinc granules	50g	B1406
29.00-0092	Zinc granules	200g	B1407
29.00-1030	SS combustion tube vario MAX cube	1	C3055
29.00-1078	Combustion tube quartz	1	C3067
34.00-0051/4	Powder filling funnel (small) with silicone tubing outlet	1	E2526
34.00-1339/4	U-Tube Large Complete with GL18 Caps	1	C3038
38.00-0124	Brass wool	50g	B1304
41.01-0002/4	Manual press 10.5mm pellet diameter	1	E2537
41.01-0004/4	Manual press 9mm pellet diameter	1	E2536
41.01-0003/4	Manual press 7mm pellet diameter	1	E2535
50 008 449/4	Wire Mesh Ronde 26.8mm	1	C3046
50 008 467	Alumina (Aluminium Oxide) Spheres 3 to 6mm	50g	B1090
50 009 375/4	Filter tube	1	C3045
88 895 805	Aspartic Acid OAS	100g	B2138

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Gerhardt part	Description	Pack	Cat. No.
7710	Copper Wires Fine Wires Reduced 4 x 0.5mm	500g	B1176
7711	HT Catalyst	100g	B1301
7712	Silica (Quartz) Wool Very Fine	10g	B1208
7713	Magnesium Perchlorate Granular 0.7–1.2mm H ₂ O absorbant	100g	B1101
7714	LT Catalyst	50g	B1302
7717	Tin Capsules Pressed Standard Weight 10.5 x 9mm	100	D1104
7718	Tin Foil Cones Standard Weight	100	D9001
7719	Quartz Reaction tube	1	C1140
7720	O-ring Nitrile Rubber	10	E1003
7721	O-ring Top reaction tubes (Round profile)	1	E1361
7724	Chromosorb W 30-60 mesh Acid Washed	10g	B3015
7724	Chromosorb W 30-60 mesh Acid Washed	25g	B3017
7725	Quartz Insert	1	C1131
7726	Prepacked Reaction Tube	1	X1270
7730	Copper Oxide Fine Wires 4 x 0.5mm	50g	B1002
7730	Copper Oxide Fine Wires 4 x 0.5mm	100g	B1125
14-0007	Copper Wires Fine Wires Reduced 4 x 0.5mm	500g	B1176
14-0011	HT Catalyst	100g	B1301
14-0012	Silica (Quartz) Wool Fine	50g	B1350
14-0013	Magnesium Perchlorate Granular 0.7–1.2mm H ₂ O absorbant	25g	B1019
14-0014	LT Catalyst	50g	B1302
14-0015	Porous Ceramic Ash Insert	10	C1141
14-0016	Tin Weighing Pans/Capsules Pressed Std Weight 10 x 10mm	100	D5055
14-0016	Tin Weighing Pans/Capsules Pressed Ultra-Light Weight 10 x 10mm	100	D5216
14-0017	Tin Foil Cones Standard Weight	100	D9001
14-0017	Tin Foil Cones Standard Weight	1500	D9010
14-0018	Quartz Reaction tube	1	C1140
14-0019	O-ring Nitrile Rubber	10	E1003
14-0020	O-ring Top reaction tubes (Round profile)	1	E1361
14-0021	CO ₂ adsorber tube with adsorbent	6	X4030
14-0022	Chromosorb W 30-60 mesh Acid Washed	10g	B3015

Cross references

Macro CN/CHN/CNS/N/protein analysis

Gerhardt part	Description	Pack	Cat. No.
14-0022	Chromosorb W 30-60 mesh Acid Washed	25g	B3017
14-0024	Prepacked Reaction Tube	1	X1270
14-0027	Copper Oxide Fine Wires 4 x 0.5mm	50g	B1002
14-0027	Copper Oxide Fine Wires 4 x 0.5mm	100g	B1125
14-0029	Porous Ceramic Ash Insert	10	C1141
14-0032	Ethylenediaminetetra-acetic Acid (EDTA) OAS	10gm	B2220
14-0043	Silica (Quartz) Wool Very Fine	10g	B1208
14-0046	Copper for Dumatherm	480g	B1352
14-0070	Tubing nuts 2mm	10	F4523
14-0081	O-ring Schott Type Silicone/PTFE	10	E1021, E1023
14-0085	Tubing PTFE 2 x 1mm x 5 metres	5m	E2030
14-0129	Tubing Stainless Steel 2 x 1mm x 3 metres	3m	E2033
14-0203	Quartz Reaction tube	1	C1140
14-0219	Absorbent for water absorption trap (orange to yellow indicator)	100g	B1306
14-0225	Quartz wool pads mixed, pack of 30 large & 30 small discs	30+30	B1357
14-0244	Prepacked Reaction Tube	1	X1270
14-0245	Prepacked Reaction Tube – Chromium free catalyst	1	X1272
14-0246	Copper for Dumatherm	480g	B1352
14-0274	Quartz wool pads small, 2 packs of 30 discs	60	B1355
14-0275	Quartz wool pads large, 2 packs of 30 discs	60	B1356
14-0521	CO ₂ adsorber tube with adsorbent	1	X4031

LECO® part	Description	Pack	Cat. No.
163-020	Tubing Inserts S/Steel 1/4 x 3/16	1	E2160
172-505	Tubing PTFE 1/4 OD x 3/16 ID	FT	E2161
190-055	Screw S/Steel 6-32 x 0.44 Philips Pan Head	1	E2162
190-423	Screws For Lance Assembly FP-528	4	E2201
190-427	Screw Zinc Plate 6-32x0.25 Philips Countersunk (Loading Head)	1	E2185
190-624	Screw	1	E2380
190-865	Screw Nylon 6-32 x 1 Slotted Countersunk Head	1	E2163
501-001	Coal Standard Sulphur Range 0.35%	50g	B2300
501-005	Coal Standard Sulphur Range 1.09%	50g	B2304
501-014	Coal Standard Sulphur Range 1.48%	50g	B2305
501-015	Coal Standard Sulphur Range 0.89%	50g	B2303
501-020	Coal Standard Sulphur Range 3.03%	50g	B2308
501-022	Coal Standard Sulphur Range 3.79%	50g	B2309
501-034	Calcium Carbonate 12%	50g	B2250
501-045	Crucible Ceramic	10	C4034
501-045-125	Crucible Ceramic	10	C4034
501-046	Sucrose OAS	25g	B2121
501-050	Nicotinic Acid OAS	15g	B2099
501-053	Acetanilide OAS	5g	B2114
501-059	Smooth Wall Tin Capsules Round Base 18 x 5mm	100	D4003
501-062	Boat Puller Assembly	1	E2768
501-077	Iron Chip Accelerator	908g	B1195
501-081	Glass Wool Borosilicate Fibres	454g	B1166
501-081	Glass Wool Rope Borosilicate Fibres	454g	B1266
501-130	Coal Standard Sulphur Range 4.1%	50g	B2310
501-171	EMADrone Magnesium Perchlorate	454g	B1161
501-171-HAZ	EMADrone Magnesium Perchlorate	454g	B1161
501-184	Coal Standard Sulphur Range 5.13%	50g	B2311
501-241	Silicone Grease	100g	E2158
501-426	Combustion Aid for Solids	454g	B1185
501-427	Combustion Aid for Liquids	454g	B1186
501-441	Sucrose OAS	25g	B2121
501-561	Soy Bean Meal Organic Analytical Standard	30g	B2271
501-571	Copper Capsules Part Round Base 6 X 18mm	100	D4100

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Macro CN/CHN/CNS/N/protein analysis

Cross references

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LECO® part	Description	Pack	Cat. No.
501-608	Quartz Wool Wadding	200g	B1522
501-609	Furnace Reagent	100g	B1191
501-614	Spatula	1	E2462
501-621	Copper Turnings Fine Long Strands Reduced and Annealed	200g	B1107
501-636	Vanadium Pentoxide Accelerator	250g	B1187
501-964	Coal Standard Sulphur Range 5.79%	50g	B2312
501-967	Extreme Pressure Oil Sulphur Range 2%	100ml	B2336
501-968	Extreme Pressure Oil Sulphur Range 3.3% 33000ppmS	100ml	B2337
501-969	Extreme Pressure Oil Sulphur Range 4.19% 41900ppmS	100ml	B2338
502-023	Filling Funnel Borosilicate Glass	1	C4027
502-026	Residual Oil Standard Sulphur Range 1.5%	100ml	B2370
502-040	Smooth Wall Tin Capsules Round Base 18 x 6mm	100	D4007
502-040-100	Smooth Wall Tin Capsules Round Base 18 x 6mm	1000	D4015
502-049	Nitrogen Catalyst Pellets 502-049	50g	B1061
502-055	Orchard Leaves Standard 502-055	20g	B2141
502-062	Soil Standard (Sandy)	30g	B2180
502-071	High Sulphur Residual Oil Sulphur Range 30%	100ml	B2330
502-085	Zinc Sulphide Standard 32.90% S	50g	B2260
502-092	Ethylenediaminetetra-acetic Acid (EDTA) OAS	50g	B2115
502-092-250	Ethylenediaminetetra-acetic Acid (EDTA)	500g	B2144
502-167	Smooth Wall Tin Capsules Round Base 20 x 8mm	100	D4009
502-174	EMASorb A Granular 0.8 to 1.6mm 14 to 25 mesh	500g	B1162
502-174-HAZ	EMASorb A Granular 0.8 to 1.6mm 14 to 25 mesh	500g	B1162
502-176	EMASorb B Granular 1.6 to 3mm 7 to 14 mesh	500g	B1164
502-177	Silica (Quartz) Wool Very Fine	50g	B1102
502-186	Tin Foil Cones Standard Weight	100	D9001
502-186-100	Tin Foil Cones Standard Weight	1500	D9010
502-186-200	Tin Foil Cones Standard Weight	100	D9001
502-188	Aluminium Oxide Pellets	200g	B1163
502-189	Copper Wires Fine Wires Reduced 4 x 0.5mm	100g	B1015M
502-202	Coal Standard Sulphur Range 0.57%	50g	B2301
502-203	Stearic Acid OAS	5g	B2102
502-204	3,5-Dinitrobenzoic Acid OAS	5g	B2118
502-205	Caffeine OAS	5g	B2104
502-207	Cystine OAS	5g	B2105
502-209	Sulphamethazine OAS	5g	B2106
502-213	Snoop Leak Detection Fluid	236ml/8 fluid oz	E2039
502-258	Copper Turnings Fine Long Strands Reduced and Annealed	200g	B1107
502-272	Com Gluten Organic Analytical Standard	30g	B2272
502-273	Alfalfa Organic Analytical Standard	30g	B2273
502-275	Rye Flour Organic Analytical Standard	30g	B2275
502-277	Barley Flour Organic Analytical Standard	30g	B2277
502-278	Rice Flour Organic Analytical Standard	30g	B2278
502-295	Copper Turnings Fine Long Strands Reduced and Annealed	200g	B1107
502-304	Copper Wires Fine Wires Reduced 4 x 0.5mm	100g	B1015M
502-304-500	Copper Wires Pound Pack Fine Wires Reduced 4 x 0.5mm	454g	B1083M
502-308	Medium Organic Content Soil Standard OAS	30g	B2178
502-309	Soil Standard (Peaty)	30g	B2176
502-310	Iron Wool Grade #2	450g	B1165
502-314	Silica (Quartz) Wool Very Fine	50g	B1102
502-321	Combustion Catalyst	250g	B1184
502-338	Cel Capsules Small	400	D9004
502-343	Ceramic Boat Liner Nickel 50 x 15 x 8mm	100	D5300
502-351	Halogen Scrubber 502-351	50g	B1269
502-359	Magnesium Oxide Beads 502-359	200g	B1190
502-382	Cel Capsules Medium 502-382	400	D9005
502-383	Coal CHNS Standard (S~0.25%) CRM	50g	B2320
502-384	Coal CHNS Standard (S~0.75%) CRM	50g	B2321
502-385	Coal CHNS Standard (S~2%) CRM	50g	B2322

Cross references

Macro CN/CHN/CNS/N/protein analysis

LECO® part	Description	Pack	Cat. No.
502-387	Coal CHNS Standard (S~3%) CRM	50g	B2323
502-388	Coal CHNS Standard S=5.39 CRM	50g	B2324
502-397	Large Tin Foil Cones Standard Weight	100	D9002
502-397-400	Large Tin Foil Cones Standard Weight	400	D9003
502-433	Coal Standard Sulphur Range 0.35%	50g	B2300
502-434	Coal Standard Sulphur Range 0.7%	50g	B2302
502-435	Coal Standard Sulphur Range 1.09%	50g	B2304
502-436	Coal Standard Sulphur Range 1.48%	50g	B2305
502-437	Coal Standard Sulphur Range 3.03%	50g	B2308
502-438	Coal Standard Sulphur Range 5.13%	50g	B2311
502-489	Micro Porous Crucible	10	E2388
502-642	Phenylalanine OAS	25g	B2148
502-654	25-(Bis(5-tert-butyl-2-benzo-oxazol-2-yl) thiophene (BBOT) OAS	25g	B2049
502-656	Copper Turnings Fine Long Strands Reduced and Annealed	200g	B1107
502-670	Coal Standard Sulphur Range 0.57%	50g	B2301
502-671	Coal Standard Sulphur Range 1.09%	50g	B2304
502-672	Coal Standard Sulphur Range 2.07%	50g	B2306
502-673	Coal Standard Sulphur Range 3.03%	50g	B2308
502-674	Coal Standard Sulphur Range 4.1%	50g	B2310
502-680	Coal CHNS Standard (S~0.25%) CRM	50g	B2320
502-681	Coal CHNS Standard (S~2%) CRM	50g	B2322
502-682	Coal CHNS Standard (S~2%) CRM	50g	B2322
502-683	Coal CHNS Standard (S~0.75%) CRM	50g	B2321
502-684	Coal CHNS Standard S=5.39 CRM	50g	B2324
502-812	Ethylenediaminetetra-acetic Acid (EDTA) OAS	50g	B2115
502-844	Copper Wires Fine Wires Reduced 4 x 0.5mm	100g	B1015M
503-032	Glass Scoop	1	C4060
528-203	Ceramic Boats Unglazed	100	C4036
528-203-250	Ceramic Boats Unglazed	250	C4137
529-026	Ceramic Crucibles	50	C4039
529-203	Ceramic Boats Unglazed	100	C4036
529-203	Ceramic Boats Unglazed	50	C4038
529-203-500	Ceramic Boats Unglazed	500	C4136
537-103	PolyFlow Tube 1/4 OD x 1/8 ID	1 ft	E2164
589-551	O-ring Sample Drop Block	1	E1112
601-132	Combustion U Tube CHN 800	1	C4330
601-387	Cooling Plate Stainless Steel	1	E2165
601-390	Furnace Filter Tube Borosilicate Glass	1	C4037
601-437	Catalyst Heater Tube Transparent Silica	1	C4023
601-442	O-ring Catalyst Heater Tube	1	E1101
601-483	Printer Paper American Letter 8.5 x 11	600 sheets	E2152
601-484	Printer Ribbon	1	E2153
601-504	O-ring Sample Drop Block	1	E1103
601-684	O-ring	1	E1344
601-691	Pinch Valve Tubing	1 ft	E2150
601-876	Pneumatic Cylinder 1 Stroke 3/8 Bore	1	E2183
601-883	Seal Piston FP228 328 428 528 CHN1000/CNS1000	1	E2238
601-936	Valve Block	1	E2196
601-937	Dosing Valve Stem Stainless Steel Without O-rings	1	E2166
601-939	O-ring	1	E1102
601-981	Cleaning Brush	1	E2154
602-605	Tube Fitting White Nylon 1/8 NPT to 3mm ID tube	1	E2181
602-672	Spring Dosing Valve Assembly	1	E2167
603-350	O-ring Installation Tube	1	E2464
605-828	O-ring Combustion/Catalyst/Filter Tube	1	E1105
606-224	Thermocouple SC-432	1	E2205
606-286	Braided Cable (short strap)	1	E2772
606-308	Ceramic Stop	1	C4040
606-309	Outer Combustion Tube Ceramic	1	C4041

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Macro CN/CHN/CNS/N/protein analysis

Cross references

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LECO® part	Description	Pack	Cat. No.
606-310	O-ring Outer Combustion Tube	1	E1120
606-312	O-ring Inner Combustion Tube	1	E1119
606-313	Inner Combustion Tube Ceramic	1	C4042
606-319	Braided Cable	1	E2736
606-320	Heating Element Clamp	1	E2204
606-327	Reagent Tube Borosilicate Glass	1	C4043
606-333	O-ring Combustion System	1	E1117
606-601	Heating Elements	4	E2206
608-339	Oxygen Lance CNS/CHN-1000	1	C4063
608-342	Inner Combustion Tube Silica CHN-1000	1	C4053
608-344	Outer Combustion Tube Ceramic CHN-1000	1	C4052
608-378	O-ring Inner Combustion Tube	1	E1119
608-379	Silica (Quartz) Wool Strips	10	B1192
608-505	Inner Combustion Tube Ceramic CNS1000	1	C4059
609-271	Radial shaft seal autoloader	1	E1134
611-431	O-ring Combustion System	1	E1118
611-476	O-ring Inner Combustion Tube	1	E1119
611-477	O-ring Outer Combustion Tube	1	E1120
612-340	O-ring	1	E1357
613-563	Braided Cable (short strap)	1	E2772
614-961	Porous Crucible	10	C4065
614-961-110	Porous Crucible	10	C4065
614-962	Oxygen Lance Short (lance length 4.75)	1	C4066
616-108	Combustion Tube FP-528	1	C4057
616-138	O-ring Combustion Tube FP528/628	1	E1140
616-146	Oxygen Lance Long (Lance length 5.25")	1	C4051
616-147	Lance Assembly Complete	1	E2199
616-504	Particle Filter	1	E2369
616-632	Lance Tube Drilled	1	C4056
617-136	O-ring	1	E1345
617-441	Mesh screen filter	1	E2379
617-548	Reagent Tube	1	C4332
618-809	Filter tube	1	C4342
619-065	Combustion Tube Truspec/FP628	1	C4338
619-139	O-ring	1	E1358
619-154	Reduction Tube	1	C4339
619-192	O-ring	1	E1359
619-268	Reagent Tube	1	C4341
619-425	Glass tube TruSpec	1	C4345
625-602-172	C-Flex Tubing Repl Kit	1	E2794
625-602-470	C-Flex Tubing Repl Kit	1	E2794
625-602-539	Reagent Tube Borosilicate Glass	1	C4043
633-101-460	Particle Filter	1	E2151
633-103-225	Reagent Tube	1	C4332
702-557	O ring	1	E1360
760-841	O-ring Combustion System	1	E1121
761-929	Crucible Tong	1	E2471
763-265	Glass Wool Borosilicate Fibres	227g	B1167
763-265	Glass Wool Rope Borosilicate Fibres	227g	B1267
763-379	O-ring Condensing Block	1	E1107
765-976	O-ring Filter Tube	1	E1133
767-757	Coal Standard Sulphur Range 2.07%	50g	B2306
767-758	Coal Standard Sulphur Range 2.63%	50g	B2307
767-759	Coke Standard Sulphur Range 1.21%	50g	B2316
768-980	Particle Filter	1	E2151
769-608	Halogen Trap Material	200g	B1526
769-610	F/Cl Trap Material	225g	B1527
770-764	Paper Roll SC32/132/232	1	E2244
770-778	Printer Ribbon CHN600/SC32/132/232/CR12	1	E2237

Cross references

Macro CN/CHN/CNS/N/protein analysis

The use of LECO® part numbers is intended for convenience only, and does not imply that the products are of LECO® origin. All Elemental Microanalysis products are guaranteed to be of high quality and are deemed to be suitable alternatives.

LECO® part	Description	Pack	Cat. No.
771-030	Bubble/Filter/Reagent Tube Borosilicate Glass	1	C4032
771-040	O-ring Sample Drop Block	1	E1114
771-407	O-ring	1	E1311
771-991	O-ring Precooler Assembly	1	E1122
772-269	O-ring Doser Valve Assembly	10	E1109
772-520	O-ring	1	E1110
772-738	O-ring Catalyst Heater Assembly	1	E1111
772-910	O-ring Sample Drop Block	1	E1100
772-992	Cooling Fan 80x80x38mm 115VAC	1	E2170
773-141	O-ring Reagent Tube	1	E1113
773-320	O-ring Reagent Tube	1	E1113
773-661	Tube Fitting Brass 10/32 to 1/16 ID tube	1	E2182
773-662	Polyu Tubing 1/8 OD x 1/16 ID	1ft	E2169
773-913	O-ring Sample Drop Block	1	E1114
774-425	O-ring	1	E1342
774-489	O-ring Combustion System	1	E1123
775-306	Secondary (screen) Filter	1	E2235
775-314	O-ring Combustion System	1	E1124
775-601	Reagent Tube Borosilicate Glass	1	C4004
775-880	Reagent/Filter Tube Borosilicate Glass	1	C4005
776-283	Oxygen Lance Transparent Silica	1	C4025
776-284	O-ring Combustion Tube	1	E1115
776-286	Combustion tube CHN 600	1	C4331
778-114	O-ring Catalyst Heater Tube	1	E1131
778-116	O-ring Ballast Tank	1	E1116
778-120	Neoprene Gasket Ballast Seal	1	E1125
780-831	O-ring Lance Assembly FP528	2	E1139
780-899	Honeycomb Ceramic	1	C4058
780-911	Reduction Tube Transparent Silica	1	C4020
781-585	Thermocouple Type S	1	E2371
783-189	O-ring	1	E1329
783-190	O-ring	1	E1328
783-274	Oxygen Lance CHN1000	1	C4068
783-275	Lance Holder Block	1	E2197
783-276	Lance Holder Cover	1	E2198
783-278	Oxygen Lance CHN1000	1	C4068
783-608	Anhydron Tube (Large)	1	C4336
783-897	O-ring	1	E1328
UK-7753	Crucible Transparent Silica + pack of 50	1	C4046

The use of Skalar® part numbers is intended for convenience only, and does not imply that the products are of Skalar® origin. All Elemental Microanalysis products are guaranteed to be of high quality and are deemed to be suitable alternatives.

Skalar® part	Description	Pack	Cat. No.
2CA10359	Silica (Quartz) Wool Very Fine	10g	B1208
2CA16353	Aluminium oxide carrier	50g	B1315
2NC22140	Large Scrubber tube for Skalar 310mm Borosilicate	1	C8103
2NC22141	He ref. Scrubber tube for Skalar 120mm Borosilicate	1	C8104
2SN20352	Copper Oxide Wires (Coarse) 6 x 0.65mm	200g	B1608
2SN20354	Anhydron-water absorber	200g	B1312
2SN20355	EMASorb B Granular 1.6-3mm ,7-14 mesh CO2 Absorbant	200g	B1117
2SN20357	Copper reductor	350g	B1314
2SN100099	Quartz tube Cu reductor Skalar	1	C8101
2SN100062	Small Scrubber tube for Skalar 220mm Borosilicate	1	C8102
2SN100061	Brass Scrubber tube for Skalar 220mm Borosilicate	1	C8105
90035245	Quartz Wool Discs 15mm Diameter	25	B1250
90050628	Brass wool	100g	B1313
90050629	Steel Wool	100g	B1170

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NITROGEN/PROTEIN DUMAS ANALYSIS					
INORGANIC ANALYSIS					
ORGANIC CARBON/SULPHUR ANALYSIS					
MACRO CN/CHN/CNS ANALYSIS					
EA-IRMS ANALYSIS					
TRACE NITROGEN, SULPHUR AND TOC ANALYSIS					

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Product sheets available, by analyser:

Inorganic (Please Tick)

Bruker G4 Icarus CS	
Bruker G8 Galileo O, N, H	
ELTRA CS2000	
ELTRA CS800	
ELTRA Elementrac CSi	
ELTRA Elementrac ON/OH/OHN-p	
ELTRA OH900	
ELTRA ON900	
Horiba EMGA-620/621	
Horiba EMGA-800/900	
Horiba EMGA-821/921	
Horiba EMIA-320V2/920V2	
Horiba EMIA820V/320V/220V	
LECO 836/736 ONH/OH/NH/H	
LECO CS125/255	
LECO CS200/C200/S200/WC200	
LECO CS230	
LECO CS244/344/IR212/232	
LECO CS300	
LECO CS400/C400/S400	
LECO CS444/IR412/432	
LECO CS600	
LECO CS744/844	
LECO DH102/103/RH101	
LECO DH603	
LECO RH402	
LECO RH404	
LECO RHEN602	
LECO RO478	
LECO TC136/336/TN114/RO116	
LECO TC300/RO300/TN300	
LECO TC436/TN414/RO416	
LECO TC500/600	
LECO TCH600	
LECO WR112	
Strohlein/Juwe NH-mat 243	

Micro/CHN(OS) (Please Tick)

Costech ECS4010	
Elementar CHN rapid	
Elementar rapid OXY cube	
Elementar vario MICRO cube	
Elementar vario EL	
Elementar vario EL cube	
Elementar vario ISOTOPE cube	
Elementar vario PYRO cube	
Europa Roboprep/ANCA/Integra	
Eurovector EA3000	
Eurovector EA3100	
Eurovector EA-3028HT	
Exeter CE240/440	
Hekatech HT-O	
LECO 900/932	
LECO Truspec Micro	
Perkin Elmer 2400	
Perkin Elmer 240ABC	
Picarro CM Model 02	
SerCon GSL/Integra	
Thermo EA1106CHNSO	
Thermo EA1108CHNSO	
Thermo EA1110CHNSO	
Thermo EA1112CHNSO/FLASH2000	
Thermo Flash 2000 IRMS	
Thermo FLASH HT/ HT Plus	
Thermo FlashSmart CHNOS	
Thermo NA1500NCS2	
Thermo TC/EA	
Thermo NA2500NCS	

Macro CHN/CNS (Please Tick)

Elementar soli TOC cube	
Elementar vario MACRO	
Elementar vario MACRO cube	
Elementar vario MAX CHN/CNS	
Elementar vario MAX cube N/CN	
Elementar vario MAX N/CN	
LECO CHN1000/CNS1000	
LECO CHN2000	
LECO CHN600/800	
LECO CNS/NS/CN2000	
LECO Truspec CHN/CN	
Skalar Primacs	

N/Protein (Please Tick)

Buchi DuMaster D-480	
CKIC TCN/CHN 2200	
Costech Turbo N	
Elementar rapid N®	
Elementar rapid N cube®	
Elementar rapid N exceed®	
Elementar rapid MAX N exceed®	
Gerhardt Dumatherm®	
LECO 828 series	
LECO FP2000	
LECO FP228	
LECO FP328	
LECO FP428	
LECO FP528	
LECO FP628/CHN628	
LECO FP/CN928 series	
LECO TruMac	
LECO Truspec N	
Perkin Elmer 2410	
Thermo Flash 4000	
Thermo FlashSmart CHNOS/N-Protein	
Thermo NA1112Protein/FLASH2000	
Thermo NA2000/2100	
Velp NDA 701 Dumas Nitrogen Analyser	

Organic Carbon/Sulphur

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Elementar rapid CS cube	
ELTRA CHS-580/CHS-580A	
ELTRA CS-500	
ELTRA Helios	
ELTRA SurfaceC-800/CW800	
LECO SC632	
LECO SC832 series	
LECO TGA601/701	
LECO RC612	
LECO SC144	
LECO SC32/132/232/CR12	
LECO SC432/444/CR412	
LECO RC412	

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Analytik Jena Multi EA2000	
Analytik Jena Multi EA3000	
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Analytik Jena Multi EA5000	
Analytik Jena Multi X2000	
Analytik Jena Multi X2500	
Analytik Jena Pharma TOC	
Antek 7000 from PAC	
Antek 9000 from PAC	
Antek MultiTek from PAC	
Dohrmann DC	
Dohrmann DN	
Dohrmann DX	
Dohrmann MCTS	
Elementar LiquiTOC	
Elementar trace SN cube	
Elementar vario TOC cube	
Elementar vario TRACE S	
Hach IL550 TOC-TN analyser	
Metrohm 930 Combustion IC	
Shimadzu TOC	
TE Instruments	
Thermo Euroglas All Instruments	
TSHR Instruments	

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Micro CHN / (OS)	
Nitrogen / Protein	
Organic Carbon / Sulphur	
Product overview / Capability brochure	

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Post, Fax or Email to:

Elemental Microanalysis Ltd
1 Hameldown Road
Okehampton
EX20 1UB UK
F: +44 (0)1837 54544
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Elemental Microanalysis Ltd.
1 Hameldown Road
Okehampton
Devon EX20 1UB
United Kingdom
Tel: +44 (0)1837 54446
Fax: +44 (0)1837 54544
Email: enquiries@microanalysis.co.uk

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