



**Elemental
Microanalysis**



catalogue | A world of products for
MICRO CHNOS & CF-IRMS analysis

Introduction

About the Company

Elemental Microanalysis has grown from small beginnings over 45 years ago as a micro-analytical laboratory to be a leading manufacturer and supplier of consumables, laboratory supplies and other products for elemental analysers. We operate from our purpose-built factory, warehouse and laboratory complex in Devon, UK.

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.

‘Price is what you pay, value is what you get’.

You learn a lot in 45 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 quality products for elemental analysis, sending our products to customers across the globe. We take great pride in the quality of our products.



All products which we manufacture in-house use our ISO 9001:2015 certified 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 (CHNOS, IRMS and CIC analysis), which affords us constant feedback on proven 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.

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 management 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'

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 (email enquiries@microanalysis.co.uk). We can also supply samples, and even develop new products for your particular application.

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.

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.

Expanding offerings

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 resulting benefits. To keep up-to-date with the latest products and developments, visit our website (elementalmicroanalysis.com), join our mailing list for updates delivered straight to your inbox (sign up on our website), or check in on your schedule by following us on LinkedIn or Twitter (@elementallab).



Sample encapsulation

Pressed tin capsules for solid samples

Elemental Microanalysis pressed capsules for solid samples are available in standard and ultra-light weights. They are manufactured to exacting standards ensuring consistently low blank values and uniform weight.

They can be used without any cleaning pre-treatment, but for critical samples solvent cleaning is recommended. They should not be ultrasonically cleaned as damage may result. We also offer ultra-clean capsules, which are solvent washed after pressing, in certain sizes of both standard and ultra-light weight capsules.



Standard weight pressed tin capsules

Pressed tin capsules for routine use.

Diameter/mm	Height/mm	Volume/ μ l <i>(calculated)</i>	Weight/mg <i>(approx average)</i>	Pack	Part No
2	4.5	14	8	100	D1083
3.2	4	32	8	100	D1001
3.2	4	32	8	250	D1043
3.2	4	32	8	500	D1000
3.2	5.25	42	12	100	D1109
3.2	5.25	42	12	250	D1004
3.2	6.5	52	17	100	D1086
3.5	3.75	36	8	100	D1087
3.5	5	48	12	100	D1003
3.5	5	48	12	250	D1005
3.5	5	48	12	500	D1002
3.5	6.25	60	17	100	D1088
3.5	8.75	84	30	100	D1089
4	4.75	60	12	100	D1090
4	6	75	17	100	D1007
4	6	75	17	250	D1038
4	6	75	17	500	D1006
4	8.5	107	30	100	D1091
5	5.5	108	17	100	D1092
5	8	157	30	100	D1009
5	8	157	30	200	D1042
5	8	157	30	250	D1008
5	9	177	36	100	D1023
5	9	177	36	200	D1026
5	9	177	36	250	D1021
5	9	177	36	400	D1022
5	12.5	245	62	200	D1010
6	7.5	212	30	100	D1093
6	12	339	62	200	D1012
6	14	396	82	200	D1017
7	7	269	30	100	D5047
7	11.5	443	62	100	D1102
8	11	553	62	100	D1103
8	13.5	679	82	200	D1018
8	20	1005	160	100	D1011
9	10.5	668	62	100	D1104
10	10	785	62	50	D5101
10	10	785	62	100	D5055

Guide by actual size

2–3.2mm diameter capsules

				
Std weight	D1083	D1001 D1043 D1000	D1109 D1004	D1086
Ultra-light	D1084	D1014	D1108	D1094

3.5mm diameter capsules

				
Std weight	D1087	D1003 D1005 D1002	D1088	D1089
Ultra-light	D1095	D1015	D1096	D1097

4mm diameter capsules

			
Std weight	D1090	D1007 D1038 D1006	D1091
Ultra-clean std weight		D1027 D1028 D1112	
Ultra-light	D1098	D1016	D1099
Ultra-clean ultra-light		D1030 D1035 D1110	

We can manufacture capsules in sizes and materials other than those listed here. We also offer discounts for larger order quantities. Please email enquiries@microanalysis.co.uk with your requirements.

Quartz, glassware & furnace tubes/accessories

Elemental Microanalysis is the approved manufacturer and supplier of EuroVector consumables.

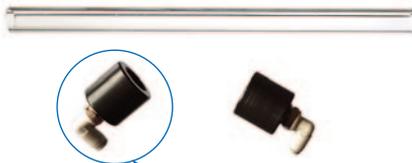


C1156

EuroVector EA3100

Part No	Description	Pack	EuroVector part
E1580	EA3100 12 mm empty trap assembly	1	P01-108
C1154	EA3100 12 mm tube for trap	1	C09-015
C1155	Modified quartz reactor 18/6	1	C10-071
C1156	Quartz crucible 13 x 70 mm	1	C10-186
C1129	Quartz liner for 18 mm reactor (200 mm) (use with C10-161/C10-169)	2	C10-180
C1074	Reaction tube	2	C10-059
C1099	Reaction tube heavy wall	1	C09-012

EA3100 12 mm empty trap assembly
E1580

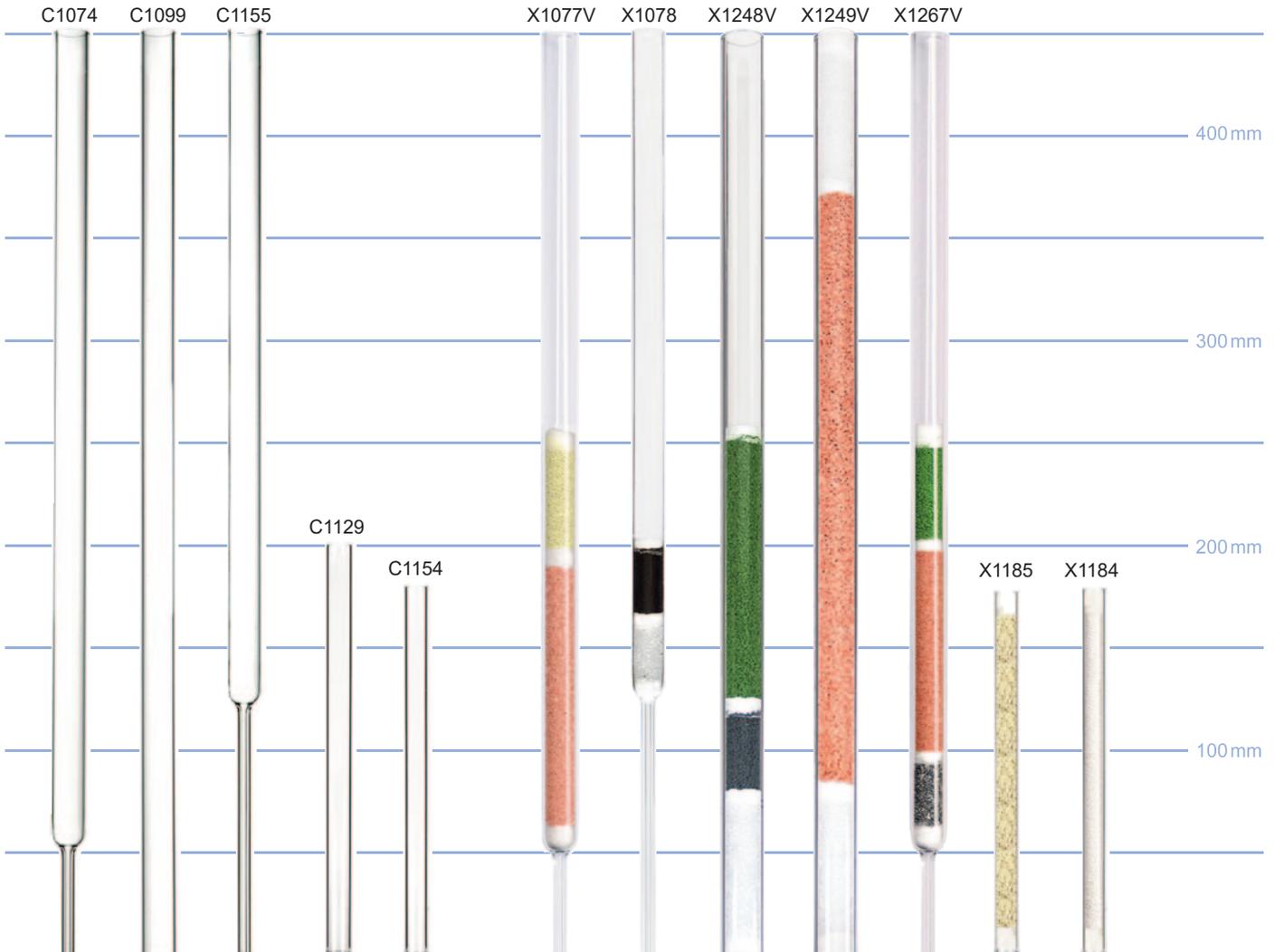


Fitting also sold separately as E1581

Prepacked tubes

Part No	Description	Pack	EuroVector part
X1077V	Prepacked tube for CHNS	1	C10-161
X1078	Prepacked oxygen pyrolysis tube	1	C10-185
X1248V	Prepacked reactor for CN, combustion	1	C10-191
X1249V	Prepacked reactor for CN, reduction	1	C10-192
X1267V	Prepacked reactor for CHN	1	C10-169
X1185	Trap for CO ₂ (10 g) EuroVector	1	C10-174
X1184	Trap for H ₂ O (10 g) EuroVector	1	C10-173

Quartz, glassware
furnace tubes



Quartz, glassware & furnace tubes/accessories

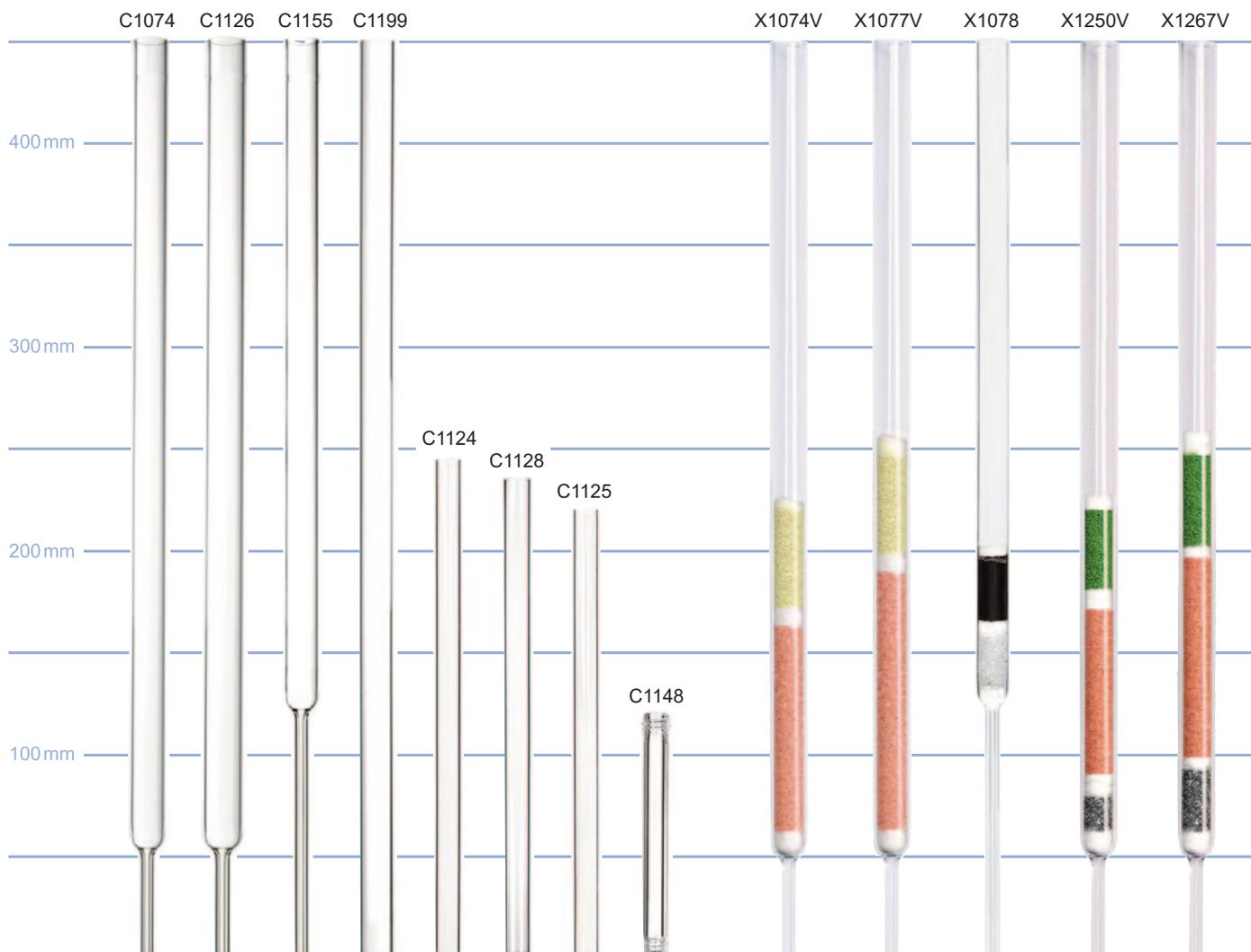
EuroVector EA3000

Part No	Description	Pack	EuroVector part
C1155	Modified quartz reactor 18/6	1	C10-071, E12512
C1126	Quartz empty reactor 20/6	1	C10-064
C1125	Quartz insert for 18 mm reactor (220 mm)	2	C10-061
C1128	Quartz liner for 18 mm reactor (235 mm) (to use with C10-161/C10-169)	2	C10-179
C1124	Quartz liner for 18 mm reactor (245 mm) (to use with C10-081/C10-084)	2	C10-062
C1074	Reaction tube	2	C10-059
C1199	Reaction tube heavy wall transparent silica	2	C10-060
C1148	Trap EuroVector 10 ml	1	C10-097

Prepacked tubes

Part No	Description	Pack	EuroVector part
X1074V	Prepacked tube CHNS/NCS/S	1	C10-084, E13040
X1077V	Prepacked tube for CHNS	1	C10-161
X1078	Prepacked oxygen pyrolysis tube	1	C10-185
X1250V	Prepacked tube CHN 18/6 single tube system	1	C10-081, E13041
X1267V	Prepacked reactor for CHN	1	C10-169

Elemental Microanalysis is the approved manufacturer and supplier of EuroVector consumables.



O-rings, seals & caps

Elemental Microanalysis is the approved manufacturer and supplier of EuroVector consumables.

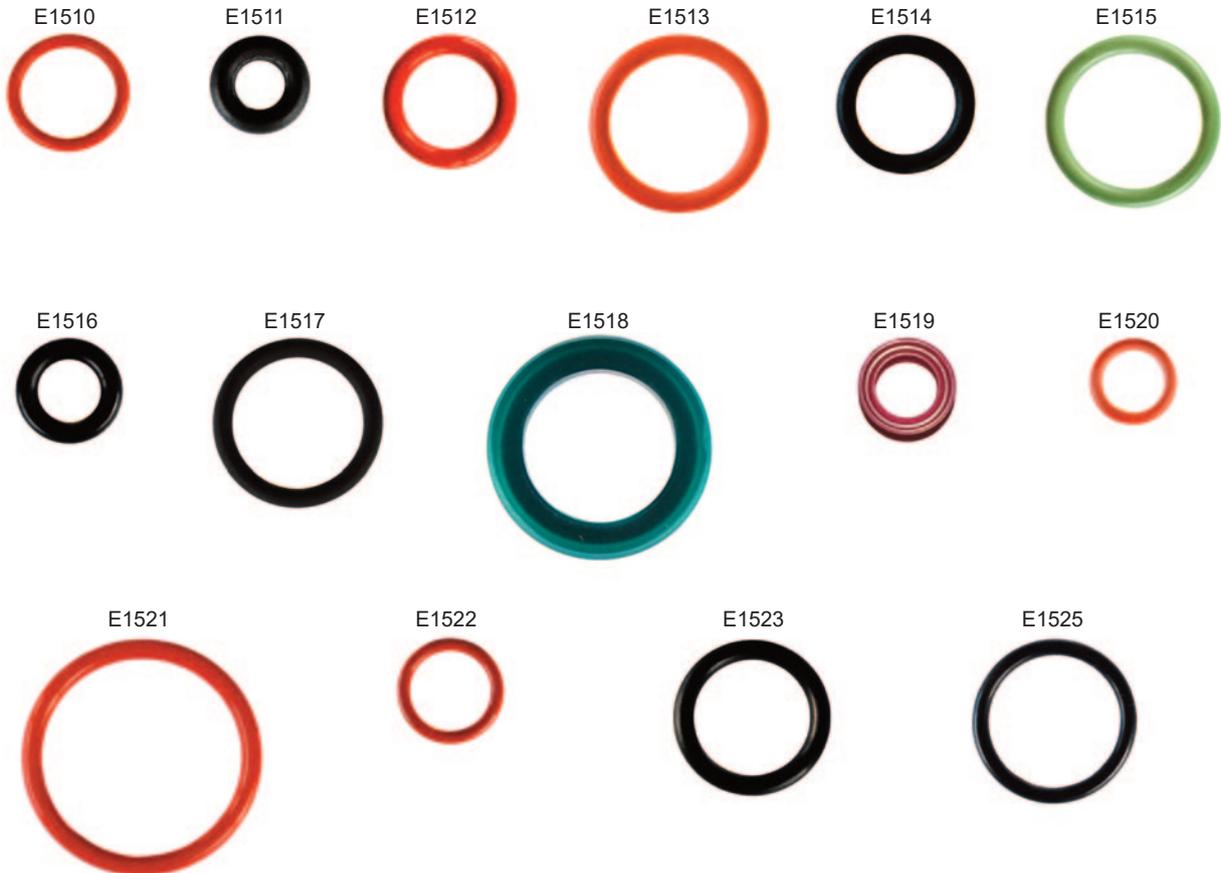
EuroVector EA3100, EA3000

Part No	Description	Pack	EuroVector part
E1510	O-ring 12.42 x 1.78 mm OR2050 silicon	1	W08-031
E1511	O-ring 6 mm OR3021 FPM	1	W08-040
E1512	O-ring 12.5 x 2.65 ISO3601G	1	W08-041
E1513	O-ring 17.86 x 2.62 Sil	1	W08-042
E1514	O-ring 13.2 x 2.65 ISO3601G	1	W08-043
E1515	O-ring 18 x 2.65 ISO3601G FKM80	1	W08-044
E1516	O-ring 8 x 2.65 ISO3601G NBR	1	W08-045
E1517	O-ring 17.13 x 2.62 ISO3601G	1	W08-111
E1518	Parker seal 20 mm	1	A02-009
E1519	Parker seal 8 mm	1	A04-054
E1520	O-ring 8.75 x 1.78 OR108 neoprene	1	W08-029
E1521	O-ring 26.5 X 2.65 OR 3106 NBR	1	W08-035
E1522	O-ring 10.6 x 1.8 ISO3601	1	W08-036
E1523	O-ring 15.08 x 2.62 neoprene	1	W08-052
E1525	O-ring 17 x 1.8 2056 NBR	1	W08-102
E2517	GL14 screw cap	1	C10-101



GL14 screw cap
E2517

O-rings
are shown
actual size



O-rings,
seals & caps

Separation columns

Part No	Description	EuroVector®	NC Technologies (Costech)	Thermo Fisher Scientific®	Sercon®
E3000	Separation column, CHN, 2 m stainless steel		051081	26008200	SC1991
E3001	Separation column, oxygen, 1 m stainless steel		051084	26007900	SC1992
E3002	Separation column, sulfur, 0.8 m PTFE		051083	26007800	SC1993
E3003	Separation column, CHNS NCS, 2 m stainless steel		051080	26008206	SC1994
E3004	Separation column, NC/NCS, 3 m stainless steel		051082	26008205	SC1995
E3006	Separation column, CHN, 2 m stainless steel			26008000	SC1998
E3007	Separation column, trace sulfur, 0.5 m PTFE			26018500	SC1998
E3008	Separation column, NC 4 m stainless steel		051085		SC1999
E3013	Separation column, CHNS, 2 m PTFE			26008208	SC2003
E3015	Separation column, CHNS, 2.5 m stainless steel				SC2005
E3016	Separation column, oxygen, 2 m stainless steel		051088		SC2006
E3020	Separation column, CHN, 2 m PTFE			26008207	SC2007
E3023	Separation column, SS			26007920	
E3024	Separation column, PTFE, 2 m			26008220	
E3025	Separation column, NC, semi-macro 2 m PTFE				SC2009
E3034	Separation column, 0.8 m 1/4" sulfur column				
E3038	Separation column, CHNS, 2 m PTFE			26008215	SC2340
E3039	Separation column, 6 x 4 PTFE 0.15 m			26007801	
E3045V	GC column, SS - 2 m 6 x 5 mm (CHNS) (1 pcs)	C10-028			
E3046V	GC column, PTFE - 1 m-CHNS	C10-168			
E3047V	GC column, PTFE - 2 m-CHNS	C10-170			
E3049V	GC column, PTFE - 1 m - 8 x 6 mm (CHNS) (1 pcs)	C10-030			
E3050V	GC column, SS - 1.5 m - 6 x 5 mm for (O-H)	C10-187			
E3051V	GC column, SS - 1.5 m - 6 x 5 mm for (O-H)(H)(O) (1 pcs)	C10-033, E11521			

Separation columns that are specifically for CF-IRMS are listed on p 75

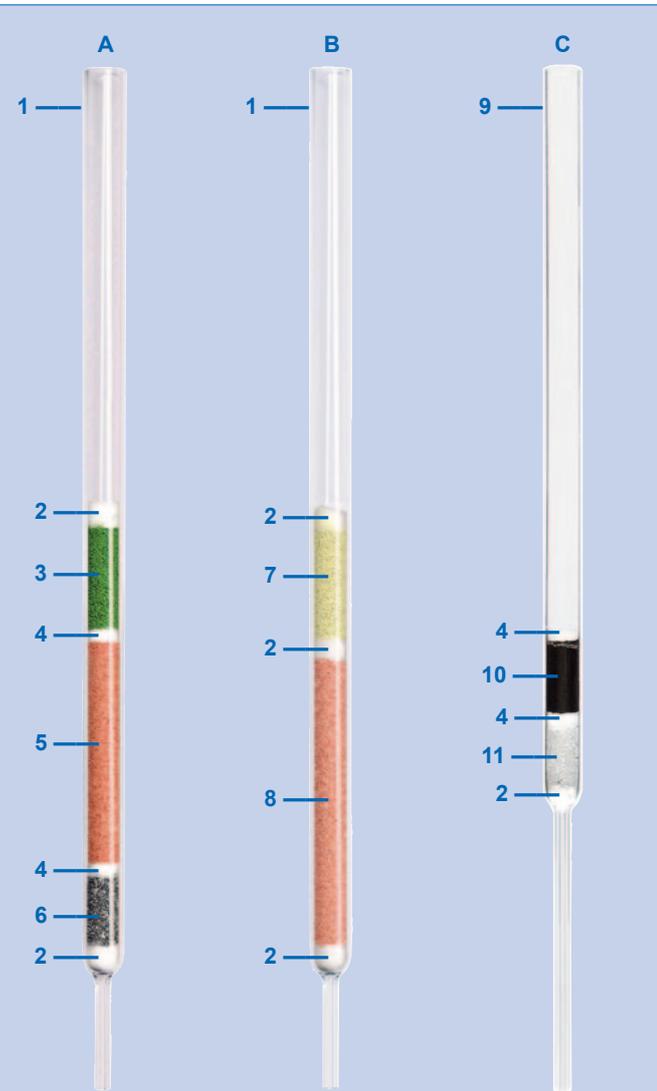


EuroVector EA3100 & EA3000

CHN mode

CHNS mode

O pyrolysis mode



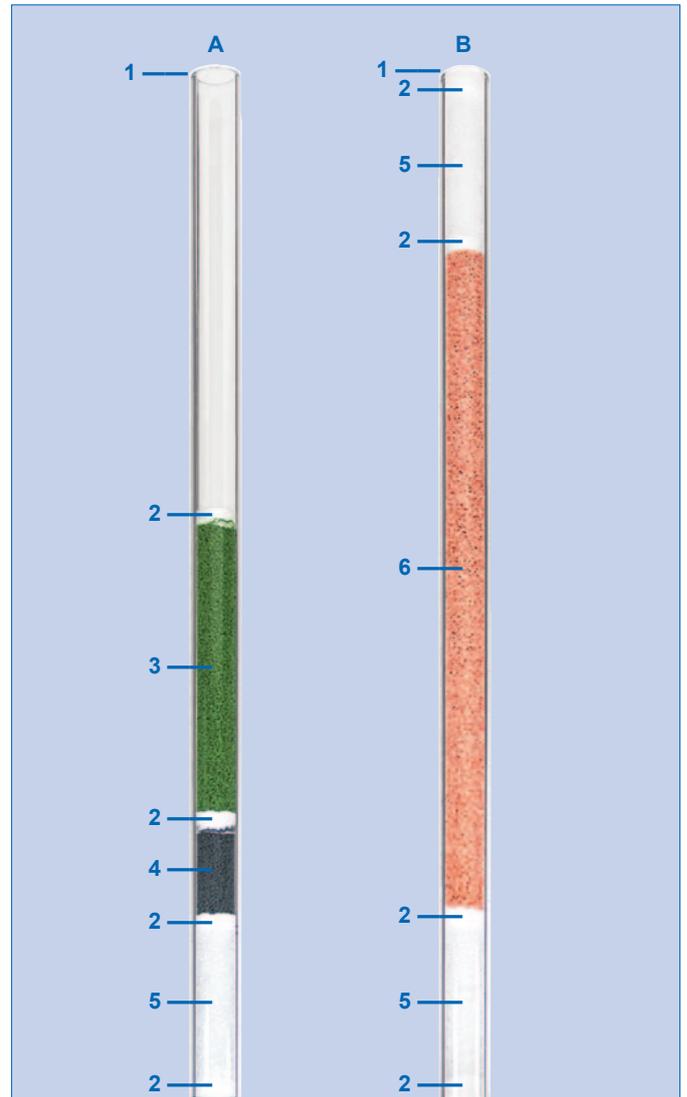
Key

Product	Qty	OEM No.	Part No.
1 Reaction tube		C10-059	C1074
2 Quartz wool, very fine	10 mm	C10-017	B1017
3 Chromium oxide granular	45 mm	C10-001	B1004
4 Quartz wool, very fine	5 mm	C10-017	B1017
5 Copper wires, coarse	100 mm	C10-004	B1016
6 Cobaltous(ic) oxide silvered	30 mm	C10-009	B1000
7 Tungstic oxide	45 mm	C10-007	B1025
8 Copper wires, coarse	125 mm	C10-004	B1016
9 Modified quartz reactor 18/6		C10-071	C1155
10 Nickelised carbon 30% Ni, granular	30 mm	C10-006	B1454
11 Silica (quartz) chips granular	25 mm	C10-016	B1271

A	Prepacked reactor for CHN	C10-169	X1267V
B	Prepacked tube for CHNS	C10-161	X1077V
C	Prepacked oxygen pyrolysis tube	C10-185	X1078

EuroVector EA3100

CN dual tube mode



Key

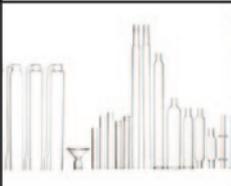
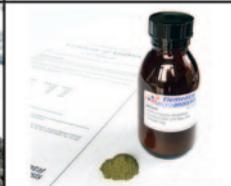
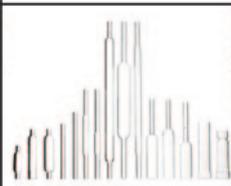
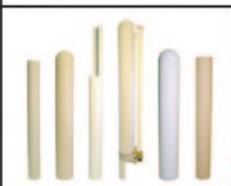
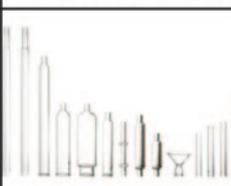
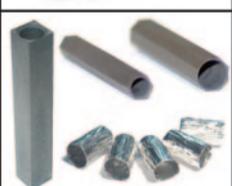
Product	Qty	OEM No.	Part No.
1 Reaction tube		C09-012	C1099
2 Quartz wool, very fine	10 mm	C10-017	B1017
3 Chromium oxide granular	125 mm	C10-001	B1004
4 Cobaltous(ic) oxide silvered	30 mm	C10-009	B1000
5 Silica (quartz) chips granular	65 mm	C10-016	B1271
6 Copper wires, coarse	280 mm	C10-004	B1016

A	Prepacked reactor for CN, combustion,	C10-191	X1248V
B	Prepacked reactor for CN, reduction	C10-192	X1249V

Elemental Microanalysis is the approved manufacturer and supplier of EuroVector consumables.

Products from Elemental Microanalysis

Operating from Devon, UK, our business holds three separate certifications and accreditations: ISO 9001 for our huge product range, supplying customers worldwide with high quality analytical consumables at value prices; ISO 17025 for our analytical services laboratory; and ISO 17034 for our new range of certified standards. Our qualified despatch and sales teams can organise safe, speedy and economical shipment of your orders worldwide by air, road or sea.

	SAMPLE ENCAPSULATION	GLASSWARE AND FURNACE TUBES	CHEMICAL REAGENTS	REFERENCE MATERIALS	OTHER PARTS AND CONSUMABLES
CHNOS (MICRO) ANALYSIS					
NITROGEN/PROTEIN DUMAS ANALYSIS					
INORGANIC ANALYSIS					
ORGANIC CARBON/SULFUR ANALYSIS					
MACRO CN/CHN/CNS ANALYSIS					
CF-IRMS ANALYSIS					
TRACE NITROGEN, SULFUR AND TOC ANALYSIS					

These pictures show only a small fraction of the thousands of products we have available for combustion elemental analysis. For further information please request our catalogue for the application area you are interested in. We can also provide Product Sheets giving a list of consumables specific to your analyser.



New from Elemental Microanalysis
ICP-MS cones
 compatible with:
 Thermo Fisher Scientific®
 Agilent Technologies®
 PerkinElmer®
 NU Instruments Ltd

Visit our website,
www.elementalmicroanalysis.com,
 for up-to-date information, product releases,
 news, and to subscribe to our mailing list.



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