

Catalogue 2005



A world of products and services for Carbon/Sulphur 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:** info@microanalysis.co.uk

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

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

## Shipping worldwide

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



Available locally from:

## Other literature available from Elemental Microanalysis

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

### Catalogues

We publish catalogues covering the following areas of elemental analysis:

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



### Product sheets

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



### Contract analysis service

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



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

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### Inside back cover:

Faxback form for literature request

## About the Company

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

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

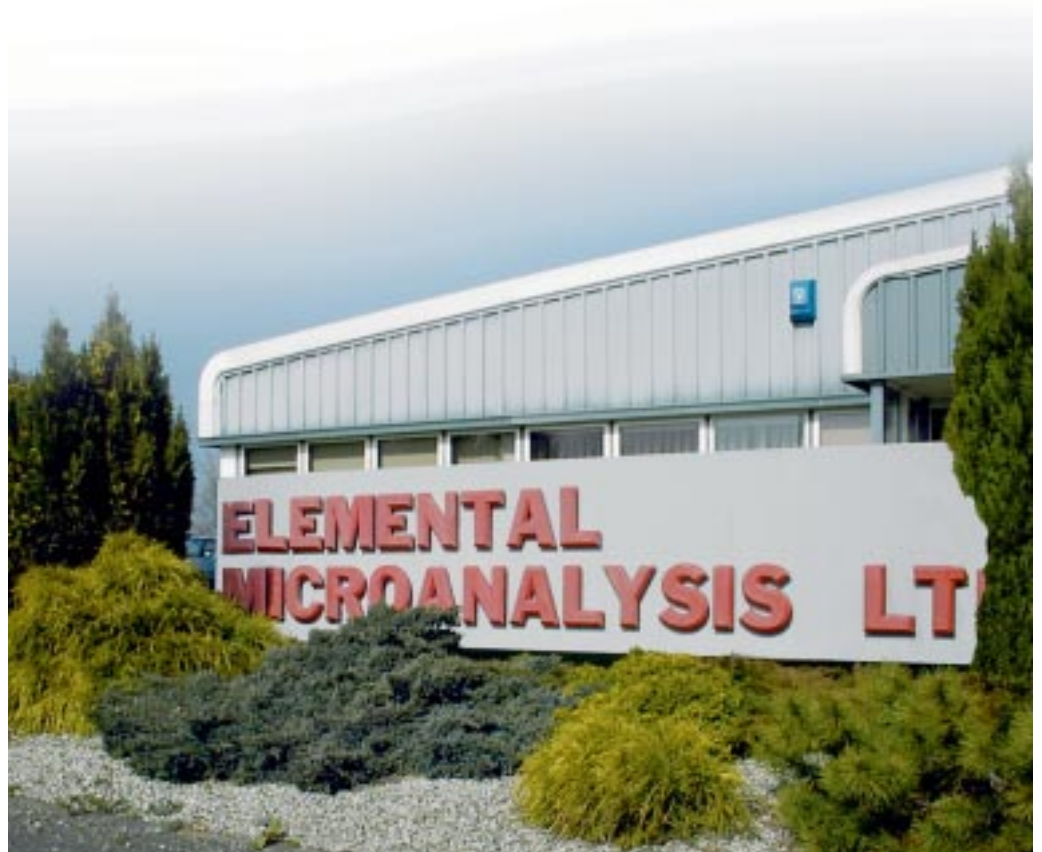
These days we offer the world's largest range of products for elemental analysers sending our products to customers across the globe.

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

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

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

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



## Guaranteed quality

Our quality system is certified to BS EN ISO 9001:2000 by LRQA under certificate no 956566 and is regularly audited by independent specialists. 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 product brand you usually use you can return it for a full refund.



## 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 3-4 different consumables to try - free and with no obligation. Offer limited to one per customer.

## Sales service

Our 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 require 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.



## Terms and conditions of sale

The acceptance of any order is on the understanding that the purchaser agrees to the following Terms and Conditions of Sale:

### Prices and orders

Prices can be confirmed by contacting our sales team. Both quoted and printed prices may be subject to alteration without notice. Order numbers are not required if payment can be made against invoice.

### Quotations and invoices

Quotations are subject to confirmation on receipt of order. We reserve the right to amend any accidental errors or omissions.

### Delivery

Although every effort will be made to honour delivery dates, no liability can be accepted if delays or non-delivery occurs.

### Amendments or cancellations

Once an order is placed we consider it firm and only open to cancellation or amendment with our agreement.

### Responsibility

Our responsibility is limited to the supply of goods of the type and quantity ordered and all consequential or resulting liability is expressly excluded.

## Product origins

The vast majority of products are manufactured and packed in the UK by Elemental Microanalysis Ltd. The use of instrument names, instrument manufacturer names and part numbers does not imply that the products are of instrument manufacturer's origin.

## Health, Safety and the Environment

We care about the effects our products may have on the health of our customers. Up to date health and safety information on relevant products (MSDS) is attached to the delivery note of every order.

Users are warned to examine and test goods and to exercise special care in cases where the use or storage of goods involves danger to people or property.

Particular care is needed with glass equipment and chemicals. We cannot accept liability for and injury or damage caused in any circumstances.

Our location, on the edge of the beautiful Dartmoor National Park, reminds us every day of our environmental responsibility. We are committed to the protection of the natural environment and ensure that any impact of our manufacturing activities is minimised.

We do not discharge hazardous effluents or atmospheric emissions in our manufacturing processes. We recycle waste metals, heat and most chemicals. Any materials that cannot be recycled are disposed of in a responsible manner. We operate a 'return to manufacturer' facility for safe disposal of used materials that we have supplied.



| Cat No | Combined description                           | Pack  | Leco® part* | Eltra part <sup>1</sup> |
|--------|--|-------|-------------|-------------------------|
| B1186  | Combustion Aid for Liquids                     | 454g  | 501-427     |                         |
| B1185  | Combustion Aid for Solids                      | 454g  | 501-426     |                         |
| B1184  | Combustion Catalyst                            | 250g  | 502-321     |                         |
| B1500  | EMACEL III Tungsten                            | 2.5kg | 763-263     |                         |
| B1161  | EMADrone Magnesium Perchlorate                 | 454g  | 501-171     | 90200                   |
| B1162  | EMASorb A Granular 0.8 to 1.6mm, 14 to 25 mesh | 500g  | 502-174     | 90210                   |
| B1164  | EMASorb B Granular 1.6 to 3mm, 7 to 14 mesh    | 500g  | 502-176     |                         |
| B1527  | F/Cl Trap Material                             | 225g  | 769-610     |                         |
| B1268  | Fluorhib                                       | 454g  | 502-156     |                         |
| B1166  | Glass Wool Borosilicate Fibres                 | 454g  | 501-081     | 90331                   |
| B1167  | Glass Wool Borosilicate Fibres                 | 227g  | 763-265     |                         |
| B1266  | Glass Wool Rope Borosilicate Fibres            | 454g  | 501-081     | 90331                   |
| B1267  | Glass Wool Rope Borosilicate Fibres            | 227g  | 763-265     |                         |
| B1516  | Graphite Powder                                | 100g  | 501-073     | 90800                   |
| B1269  | Halogen Scrubber                               | 50g   | 502-351     |                         |
| B1526  | Halogen Trap Material                          | 200g  | 769-608     | 90234                   |
| B1300  | Iron Phosphate                                 | 100g  |             | 90300                   |
| B1524  | Iron Powder                                    | 454g  | 501-078     |                         |
| B1102  | Quartz (Silica) Wool Fine                      | 50g   | 502-177     | 90330                   |
| B1522  | Quartz Wool Wadding                            | 200g  | 501-608     |                         |
| B1123  | Rare Earth Copper Oxide Granular 0.85 to 1.7mm | 50g   | 501-170     | 90290                   |
| B1507  | Tin Metal Accelerator                          | 908g  | 501-076     | 90280                   |
| B1188  | Tungsten Trioxide Powder                       | 125g  | 502-301     |                         |
| B1187  | Vanadium Pentoxide Accelerator                 | 250g  | 501-636     | 90230                   |

EMACEL III Tungsten B1500



Tin Metal Accelerator B1507



Rare Earth Copper Oxide Granular B1123



Halogen Trap Material B1526

Tungsten Trioxide Powder B1188



Glass Wool Rope B1266



EMADrone Magnesium Perchlorate B1161

Ceramic Boat Liners Nickel  
D5300



Ceramic Combustion Boat  
C4140/4141



Nickel Boat Liners D5310



Ceramic Boats C4064



Ceramic Boats Unglazed C4038



Quartz Boat  
C4508



| Cat No | Combined description                    | Pack | Leco® part* | Eltra part <sup>1</sup> |
|--------|---|------|-------------|-------------------------|
| D5300  | Ceramic Boat Liner Nickel 50 x 15 x 8mm | 100  | 502-343     |                         |
| C4036  | Ceramic Boats Unglazed                  | 100  | 529-203     |                         |
| C4038  | Ceramic Boats Unglazed                  | 50   |             |                         |
| C4136  | Ceramic Boats Unglazed                  | 500  | 528-203-500 | 90155                   |
| C4140  | Ceramic Combustion Boat                 | 500  | 528-053     |                         |
| C4141  | Ceramic Combustion Boat                 | 1000 | 528-053     |                         |
| C4064  | Combustion Boat Low Profile SC144       | 500  | 529-204     |                         |
| D5310  | Nickel Liner                            | 10   | 782-059     |                         |
| C4508  | Quartz Boat                             | 1    | 781-335     |                         |

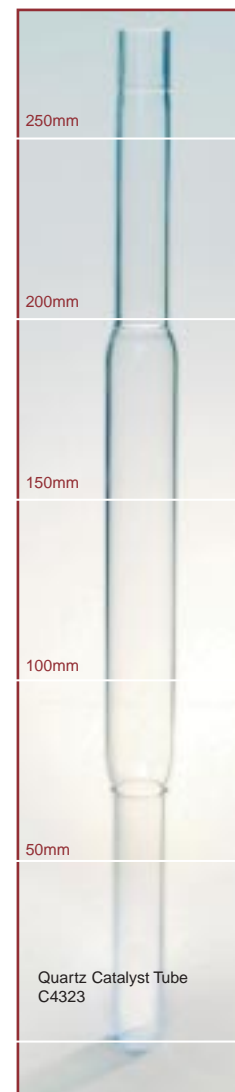
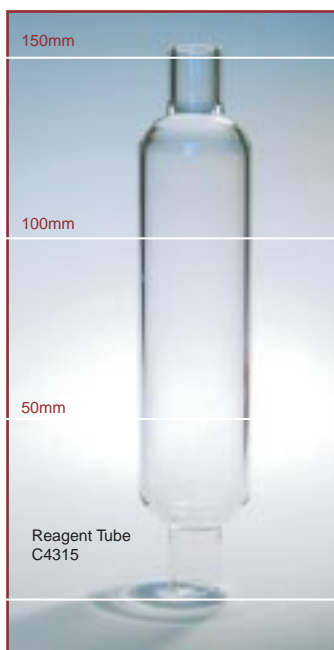




| Cat No | Description                                 | Pack  | Leco® part* | %C    | %S    | %H   | %N    |
|--------|---|-------|-------------|-------|-------|------|-------|
| B2273  | Alfalfa OAS                                 | 30g   | 502-273     | 45.77 | 0.20  | 5.42 | 3.37  |
| B2277  | Barley OAS                                  | 30g   | 502-277     | 46.68 | 0.14  | 5.57 | 1.50  |
| B2250  | Calcium Carbonate 12%                       | 50g   | 501-034     | 12.00 |       |      |       |
| B2350  | Calcium Oxalate Standard                    | 50g   | 502-091     | 12.21 |       |      |       |
| B2300  | Coal Standard Sulphur Range 0.3%            | 50g   | 501-001     |       | 0.30  |      |       |
| B2301  | Coal Standard Sulphur Range 0.5%            | 50g   | 502-202     |       | 0.50  |      |       |
| B2302  | Coal Standard Sulphur Range 0.7%            | 50g   |             |       | 0.70  |      |       |
| B2303  | Coal Standard Sulphur Range 0.85%           | 50g   | 501-015     |       | 0.85  |      |       |
| B2304  | Coal Standard Sulphur Range 1%              | 50g   | 501-005     |       | 1.00  |      |       |
| B2305  | Coal Standard Sulphur Range 1.5%            | 50g   | 501-014     |       | 1.50  |      |       |
| B2306  | Coal Standard Sulphur Range 2%              | 50g   | 767-757     |       | 2.00  |      |       |
| B2307  | Coal Standard Sulphur Range 2.5%            | 50g   | 767-758     |       | 2.50  |      |       |
| B2308  | Coal Standard Sulphur Range 3%              | 50g   | 501-520     |       | 3.00  |      |       |
| B2309  | Coal Standard Sulphur Range 3.5%            | 50g   | 501-022     |       | 3.50  |      |       |
| B2310  | Coal Standard Sulphur Range 4%              | 50g   | 501-130     |       | 4.00  |      |       |
| B2311  | Coal Standard Sulphur Range 5%              | 50g   | 501-184     |       | 5.00  |      |       |
| B2312  | Coal Standard Sulphur Range 6%              | 50g   | 501-964     |       | 6.00  |      |       |
| B2317  | Coke Standard Sulphur Range 0.5%            | 50g   |             |       | 0.50  |      |       |
| B2315  | Coke Standard Sulphur Range 0.7%            | 50g   |             |       | 0.70  |      |       |
| B2316  | Coke Standard Sulphur Range 0.9%            | 50g   | 767-759     |       | 0.90  |      |       |
| B2272  | Corn Gluten OAS                             | 30g   | 502-272     | 50.29 | 0.96  | 6.33 | 10.95 |
| B2270  | Corn Meal OAS                               | 30g   | 501-563     | 45.35 | 0.15  | 5.44 | 1.91  |
| B2144  | Ethylenediaminetetra-acetic Acid (EDTA) OAS | 500g  |             | 41.09 |       | 5.52 | 9.59  |
| B2115  | Ethylenediaminetetra-acetic Acid (EDTA)     | 50g   | 502-092     | 41.09 |       | 5.52 | 9.59  |
| B2137  | Ethylenediaminetetra-acetic Acid (EDTA)     | 100g  |             | 41.09 |       | 5.52 | 9.59  |
| B2336  | Extreme Pressure Oil Sulphur Range 2%       | 118ml | 501-967     |       | 2.00  |      |       |
| B2337  | Extreme Pressure Oil Sulphur Range 3%       | 118ml | 501-968     |       | 3.00  |      |       |
| B2338  | Extreme Pressure Oil Sulphur Range 4%       | 118ml | 501-969     |       | 4.00  |      |       |
| B2332  | High Sulphur Residual Oil Sulphur Range 10% | 118ml |             |       | 10.00 |      |       |
| B2331  | High Sulphur Residual Oil Sulphur Range 20% | 118ml |             |       | 20.00 |      |       |
| B2330  | High Sulphur Residual Oil Sulphur Range 30% | 118ml | 502-071     |       | 30.00 |      |       |
| B2334  | High Sulphur Residual Oil Sulphur Range 5%  | 118ml |             |       | 5.00  |      |       |
| B2333  | High Sulphur Residual Oil Sulphur Range 6%  | 118ml |             |       | 6.00  |      |       |
| B2276  | Oatmeal OAS                                 | 30g   | 502-276     | 47.76 | 0.16  | 5.72 | 2.09  |
| B2154  | Protein (Casein) OAS                        | 30g   |             | 47.02 | 0.86  |      | 13.63 |
| B2360  | Residual Oil Standard Sulphur Range 0.1%    | 118ml |             |       | 0.10  |      |       |
| B2361  | Residual Oil Standard Sulphur Range 0.2%    | 118ml |             |       | 0.20  |      |       |
| B2362  | Residual Oil Standard Sulphur Range 0.3%    | 118ml |             |       | 0.30  |      |       |
| B2363  | Residual Oil Standard Sulphur Range 0.4%    | 118ml |             |       | 0.40  |      |       |
| B2364  | Residual Oil Standard Sulphur Range 0.5%    | 118ml |             |       | 0.50  |      |       |
| B2365  | Residual Oil Standard Sulphur Range 0.6%    | 118ml |             |       | 0.60  |      |       |
| B2366  | Residual Oil Standard Sulphur Range 0.7%    | 118ml |             |       | 0.70  |      |       |
| B2367  | Residual Oil Standard Sulphur Range 0.8%    | 118ml |             |       | 0.80  |      |       |
| B2368  | Residual Oil Standard Sulphur Range 0.9%    | 118ml |             |       | 0.90  |      |       |
| B2369  | Residual Oil Standard Sulphur Range 1%      | 118ml |             |       | 1.00  |      |       |
| B2370  | Residual Oil Standard Sulphur Range 1.5%    | 118ml |             |       | 1.50  |      |       |
| B2371  | Residual Oil Standard Sulphur Range 2%      | 118ml |             |       | 2.00  |      |       |
| B2372  | Residual Oil Standard Sulphur Range 2.5%    | 118ml |             |       | 2.50  |      |       |
| B2373  | Residual Oil Standard Sulphur Range 3%      | 118ml |             |       | 3.00  |      |       |
| B2374  | Residual Oil Standard Sulphur Range 3.5%    | 118ml |             |       | 3.50  |      |       |
| B2375  | Residual Oil Standard Sulphur Range 4%      | 118ml |             |       | 4.00  |      |       |
| B2376  | Residual Oil Standard Sulphur Range 4.5%    | 118ml |             |       | 4.50  |      |       |
| B2278  | Rice Flour OAS                              | 30g   | 502-278     | 44.70 | 0.12  | 5.88 | 1.36  |
| B2275  | Rye Flour OAS                               | 30g   | 502-275     | 44.25 | 0.17  | 5.78 | 1.86  |
| B2150  | Sediment (high organic) OAS                 | 30g   |             | 6.72  | 0.92  |      | 0.50  |
| B2152  | Soil (low organic) OAS                      | 30g   |             | 1.65  | 0.031 |      | 0.14  |
| B2158  | Sorghum Flour OAS                           | 30g   |             | 41.58 | 0.105 |      | 1.46  |
| B2271  | Soy Bean Meal OAS                           | 30g   | 501-561     | 45.18 | 0.37  | 5.69 | 7.98  |
| B2274  | Wheat Flour OAS                             | 30g   | 502-274     | 43.17 | 0.17  | 5.76 | 2.74  |
| B2156  | Wheat Flour OAS                             | 30g   |             | 39.53 | 0.098 |      | 1.47  |
| B2260  | Zinc Sulphide                               | 50g   | 502-085     |       | 32.00 |      |       |

Leco®

| Cat No | Description                           | Pack | Leco® part* |
|--------|---------------------------------------|------|-------------|
| C4324  | Combustion Tube                       | 1    | 783-299     |
| C4200  | Combustion Tube Assembly SC132/32/232 | 1    | 773-932     |
| C4201  | Combustion Tube Liner SC132/32/232    | 1    | 529-011     |
| C4027  | Filling Funnel Borosilicate Glass     | 1    | 502-023     |
| C4060  | Glass Scoop                           | 1    | 503-032     |
| C4110  | Inner Combustion Tube                 | 1    | 616-070     |
| C4042  | Inner Combustion Tube Ceramic         | 1    | 606-313     |
| C4202  | Lance Assembly SC132/32/232           | 1    | 772-402     |
| C4056  | Lance Tube, Drilled                   | 1    | 616-632     |
| C4111  | Outer Combustion Tube                 | 1    | 616-089     |
| C4041  | Outer Combustion Tube Ceramic         | 1    | 606-309     |
| C4323  | Quartz Catalyst Tube                  | 1    | 782-428     |
| C4315  | Reagent Tube                          | 1    | 771-373     |
| C4043  | Reagent Tube Borosilicate Glass       | 1    | 606-327     |
| E2720  | Glass Scoop 1.5ml                     | 1    | 776-978     |
| C4203  | Reagent Tube SC132/32/232             | 1    | 767-541     |

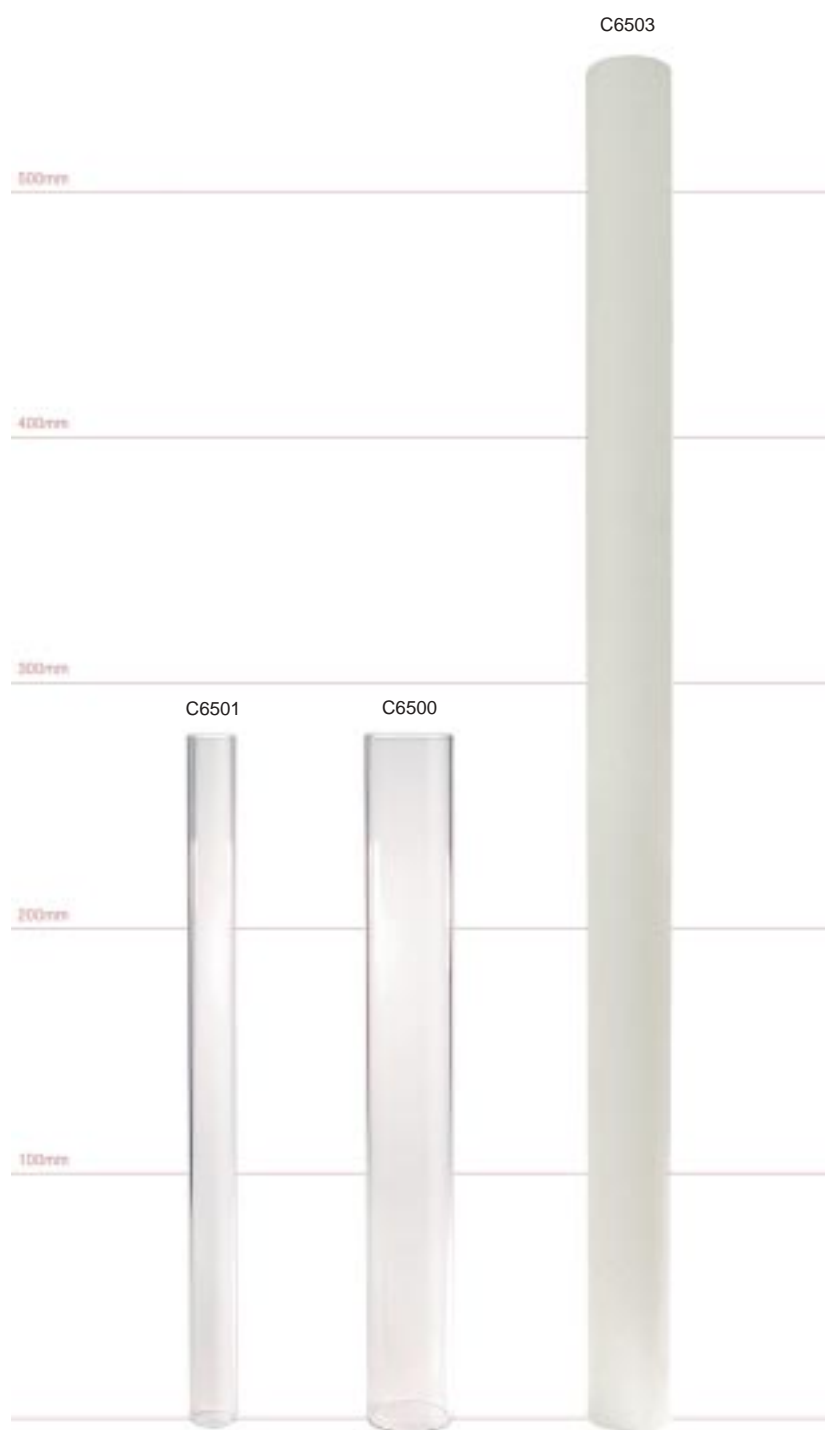


Leco® (continued)



## Eltra

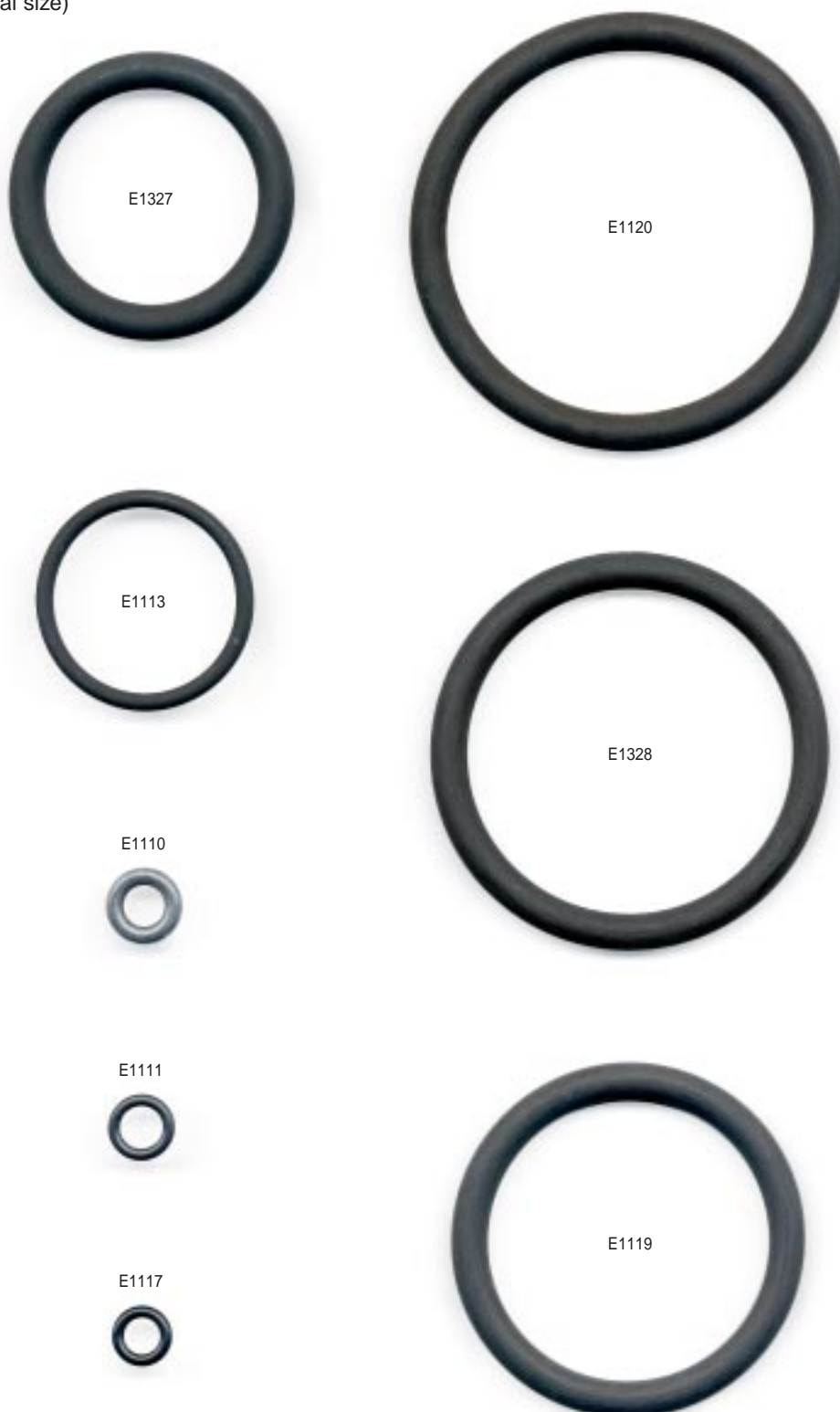
| Cat No | Description                 | Pack | Eltra part <sup>1</sup> |
|--------|-----------------------------|------|-------------------------|
| C6503  | Combustion Tube CS500       | 1    | 90162                   |
| C6500  | Reagent Tube 280x32mm CS500 | 1    | 09090                   |
| C6501  | Reagent Tube                | 1    | 11064                   |



Leco®

| Cat No | Description                     | Pack | Leco® part* |
|--------|---------------------------------|------|-------------|
| E1111  | O Ring Catalyst Heater Assembly | 1    | 772-738     |
| E1117  | O Ring Combustion System        | 1    | 606-333     |
| E1119  | O Ring Inner Combustion Tube    | 1    | 611-476     |
| E1120  | O Ring Outer Combustion Tube    | 1    | 611-477     |
| E1113  | O Ring Reagent Tube             | 1    | 773-320     |
| E1327  | O-Ring                          | 1    | 616-068     |
| E1328  | O-Ring                          | 1    | 783-897     |

(O-Rings shown actual size)



## Eltra

| Cat No | Description   | Pack | Eltra part <sup>1</sup> |
|--------|---|------|-------------------------|
| E1154  | O-Ring  | 1    | 70320                   |
| E1155  | O-Ring  | 1    | 70330                   |
| E1156  | O-Ring  | 1    | 70380                   |
| E1157  | O-Ring  | 1    | 70410                   |
| E1151  | O-Ring 9x3  | 1    | 70230                   |
| E1153  | O-Ring ON900 CS800 CS500 18x2                               | 1    | 70280                   |
| E1152  | O-Ring CS500 16x5   | 1    | 70270                   |
| E1150  | O-Ring CS500 6x2.5  | 1    | 70150                   |
| E1210  | Set of O-rings (4 x E1151, 2 x E1154, 1 x E1156, 1 x E1157) | 1    | 70026                   |

(O-Rings shown actual size)

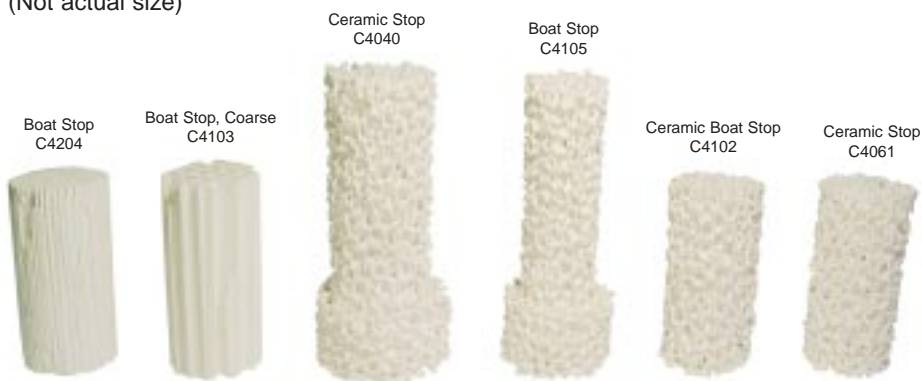


Leco®

| Cat No | Description  | Pack  | Leco® part* |
|--------|--|-------|-------------|
| E2747  | 1 Gram Weight  | 1     | 764-078     |
| E2241  | 3/8" Socket Cap Screw                                | 1     | 190-742     |
| E2768  | Boat Puller Assembly                                 | 1     | 501-062     |
| E2477  | Boat Puller Assembly                                 | 1     | 780-044     |
| E2769  | Boat Puller for Autoloader                           | 1     | 606-547     |
| C4105  | Boat Stop  | 1     | 616-086     |
| C4103  | Boat Stop, Coarse                                    | 1     |             |
| C4204  | Boat Stop SC132/32/232                               | 1     | 529-022     |
| E2736  | Braided Cable  | 1     | 606-319     |
| E2772  | Braided Cable (short strap)                          | 1     | 613-563     |
| E2761  | Ceramic Adhesive                                     | 1     |             |
| C4102  | Ceramic Boat Stop SC32/132/232                       | 1     | 782-079-115 |
| C4040  | Ceramic Stop   | 1     | 606-308     |
| E2743  | Chopper Motor  | 1     | 772-560     |
| E2770  | Cleaning Brush                                       | 1     | 775-859     |
| E2471  | Crucible Tong  | 1     | 761-929     |
| E2775  | Delivery Tube Assembly                               | 1     | 773-928     |
| E2204  | Heating Element Clamp                                | 1     | 606-320     |
| E2748  | Heating Element SC232/132/32/CR-12 & CF-12           | 1     | 783-177     |
| E2735  | Heating Elements Set of 3                            | 1     | 606-318     |
| E2206  | Heating Elements Set of 4                            | 1     | 606-601     |
| E2771  | Lance Tube Kit                                       | 1     | 616-633-110 |
| E2773  | Lower Fitting Kit                                    | 1     | 783-030     |
| E2375  | Motor Brush for E2376 (774-571)                      | 1     | 175-631     |
| E1110  | O Ring Furnace Filter/Filter Tube                    | 1     | 772-520     |
| E2244  | Paper Roll SC32/132/232                              | 1     | 770-764     |
| E2151  | Particle Filter                                      | 1     | 768-980     |
| E2152  | Printer Paper American Letter 8.5 x 11" x 600 sheets | 1     | 601-483     |
| E2237  | Printer Ribbon SC32/132/232/CR12                     | 1     | 770-778     |
| E2153  | Printer Ribbon Oki Data 320                          | 1     | 601-484     |
| E2373  | Pump Kit   | 1     | 175-590     |
| E2247  | Screen Mesh SC32/132/232                             | 1     | 760-193     |
| E2235  | Secondary (screen) Filter                            | 1     | 775-306     |
| E2158  | Silicone Grease                                      | 100gm | 501-241     |
| E2462  | Spatula  | 1     | 501-614     |
| E2377  | Teflon Disconnect Block                              | 1     | 773-931     |
| E2246  | Thermocouple SC32/132/232                            | 1     | 777-073     |
| E2205  | Thermocouple SC-432                                  | 1     | 606-224     |
| E2376  | Vacuum Pump SC32/132 24V DC                          | 1     | 774-571     |
| E2721  | Victor Printer Tear Off Blade Kit                    | 1     | 175-573     |



(Not actual size)



### Eltra

| Cat No | Description               | Pack  | Eltra part <sup>1</sup> |
|--------|---------------------------|-------|-------------------------|
| C6502  | Boat Stop CS500           | 1     | 36101                   |
| E2426  | Heating Elements Set of 4 | 1     | 77500                   |
| E2424  | Safety Ring               | 1     | 75140                   |
| E2427  | Set of fuses              | 1     | 80926                   |
| E2158  | Silicone Grease           | 100gm | 92610                   |
| E2425  | Thermocouple              | 1     | 77425                   |



Boat Stop  
C6502



## Leco® - Elemental Microanalysis

| Leco® Part* | Product  | Pack  | Cat. no. |
|-------------|--|-------|----------|
| 175-573     | Victor Printer Tear Off Blade Kit                    | 1     | E2721    |
| 175-590     | Pump Kit   | 1     | E2373    |
| 175-631     | Motor Brush for E2376 (774-571)                      | 1     | E2375    |
| 190-742     | 3/8" Socket Cap Screw                                | 1     | E2241    |
| 501-001     | Coal Standard Sulphur Range 0.3%                     | 50g   | B2300    |
| 501-005     | Coal Standard Sulphur Range 1%                       | 50g   | B2304    |
| 501-014     | Coal Standard Sulphur Range 1.5%                     | 50g   | B2305    |
| 501-015     | Coal Standard Sulphur Range 0.85%                    | 50g   | B2303    |
| 501-022     | Coal Standard Sulphur Range 3.5%                     | 50g   | B2309    |
| 501-034     | Calcium Carbonate 12%                                | 50g   | B2250    |
| 501-062     | Boat Puller Assembly                                 | 1     | E2768    |
| 501-073     | Graphite Powder                                      | 100g  | B1516    |
| 501-076     | Tin Metal Accelerator                                | 908g  | B1507    |
| 501-078     | Iron Powder  | 454g  | B1524    |
| 501-081     | Glass Wool Borosilicate Fibres                       | 454g  | B1166    |
| 501-081     | Glass Wool Rope Borosilicate Fibres                  | 454g  | B1266    |
| 501-130     | Coal Standard Sulphur Range 4%                       | 50g   | B2310    |
| 501-170     | Rare Earth Copper Oxide Granular 0.85 to 1.7mm       | 50g   | B1123    |
| 501-171     | EMADrone Magnesium Perchlorate                       | 454g  | B1161    |
| 501-184     | Coal Standard Sulphur Range 5%                       | 50g   | B2311    |
| 501-241     | Silicone Grease                                      | 100g  | E2158    |
| 501-426     | Combustion Aid for Solids                            | 454g  | B1185    |
| 501-427     | Combustion Aid for Liquids                           | 454g  | B1186    |
| 501-520     | Coal Standard Sulphur Range 3%                       | 50g   | B2308    |
| 501-561     | Soy Bean Meal OAS                                    | 30g   | B2271    |
| 501-563     | Corn Meal OAS  | 30g   | B2270    |
| 501-608     | Quartz Wool Wadding                                  | 200g  | B1522    |
| 501-614     | Spatula  | 1     | E2462    |
| 501-636     | Vanadium Pentoxide Accelerator                       | 250g  | B1187    |
| 501-964     | Coal Standard Sulphur Range 6%                       | 50g   | B2312    |
| 501-967     | Extreme Pressure Oil Sulphur Range 2%                | 118ml | B2336    |
| 501-968     | Extreme Pressure Oil Sulphur Range 3%                | 118ml | B2337    |
| 501-969     | Extreme Pressure Oil Sulphur Range 4%                | 118ml | B2338    |
| 502-023     | Filling Funnel Borosilicate Glass                    | 1     | C4027    |
| 502-071     | High Sulphur Residual Oil Sulphur Range 30%          | 118ml | B2330    |
| 502-085     | Zinc Sulphide  | 50g   | B2260    |
| 502-091     | Calcium Oxalate Standard                             | 50g   | B2350    |
| 502-092     | Ethylenediaminetetra-acetic Acid (EDTA)              | 50g   | B2115    |
| 502-156     | Fluorhib   | 454g  | B1268    |
| 502-174     | 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     | Quartz (Silica) Wool Fine                            | 50g   | B1102    |
| 502-202     | Coal Standard Sulphur Range 0.5%                     | 50g   | B2301    |
| 502-272     | Corn Gluten OAS                                      | 30g   | B2272    |
| 502-273     | Alfalfa OAS  | 30g   | B2273    |
| 502-274     | Wheat Flour OAS                                      | 30g   | B2274    |
| 502-275     | Rye Flour OAS  | 30g   | B2275    |
| 502-276     | Oatmeal OAS  | 30g   | B2276    |
| 502-277     | Barley OAS   | 30g   | B2277    |
| 502-278     | Rice Flour OAS                                       | 30g   | B2278    |
| 502-301     | Tungsten Trioxide Powder                             | 125g  | B1188    |
| 502-321     | Combustion Catalyst                                  | 250g  | B1184    |
| 502-343     | Ceramic Boat Liner Nickel 50 x 15 x 8mm              | 100   | D5300    |
| 502-351     | Halogen Scrubber                                     | 50g   | B1269    |
| 503-032     | Glass Scoop  | 1     | C4060    |
| 528-053     | Ceramic Combustion Boat                              | 500   | C4140    |
| 528-053     | Ceramic Combustion Boat                              | 1000  | C4141    |
| 528-203-500 | Ceramic Boats Unglazed                               | 500   | C4136    |
| 529-011     | Combustion Tube Liner SC132/32/232                   | 1     | C4201    |
| 529-022     | Boat Stop SC132/32/232                               | 1     | C4204    |
| 529-203     | Ceramic Boats Unglazed                               | 100   | C4036    |
| 529-204     | Combustion Boat Low Profile SC144                    | 500   | C4064    |
| 601-483     | Printer Paper American Letter 8.5 x 11" x 600 sheets | 1     | E2152    |
| 601-484     | Printer Ribbon Oki Data 320                          | 1     | E2153    |
| 606-224     | Thermocouple SC-432                                  | 1     | E2205    |
| 606-286     | Braided Cable Short Strap                            | 1     | E2737    |
| 606-308     | Ceramic Stop   | 1     | C4040    |
| 606-309     | Outer Combustion Tube Ceramic                        | 1     | C4041    |

| Leco® Part* | Product                                    | Pack  | Cat. no. |
|-------------|--|-------|----------|
| 606-313     | Inner Combustion Tube Ceramic              | 1     | C4042    |
| 606-318     | Heating Elements Set of 3                  | 1     | E2735    |
| 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    |
| 606-547     | Boat Puller for Autoloader                 | 1     | E2769    |
| 606-601     | Heating Elements Set of 4                  | 1     | E2206    |
| 611-476     | O Ring Inner Combustion Tube               | 1     | E1119    |
| 611-477     | O Ring Outer Combustion Tube               | 1     | E1120    |
| 613-563     | Braided Cable, short strap (was 606-286)   | 1     | E2772    |
| 616-068     | O-Ring                                     | 1     | E1327    |
| 616-070     | Inner Combustion Tube                      | 1     | C4110    |
| 616-086     | Boat Stop                                  | 1     | C4105    |
| 616-089     | Outer Combustion Tube                      | 1     | C4111    |
| 616-632     | Lance Tube, Drilled                        | 1     | C4056    |
| 616-633-110 | Lance Tube Kit                             | 1     | E2771    |
| 760-193     | Screen Mesh SC32/132/232                   | 1     | E2247    |
| 761-929     | Crucible Tong                              | 1     | E2471    |
| 763-263     | EMACEL III Tungsten                        | 2.5kg | B1500    |
| 763-265     | Glass Wool Borosilicate Fibres             | 227g  | B1167    |
| 763-265     | Glass Wool Rope Borosilicate Fibres        | 227g  | B1267    |
| 764-078     | 1 Gram Weight                              | 1     | E2747    |
| 767-541     | Reagent Tube SC132/32/232                  | 1     | C4203    |
| 767-757     | Coal Standard Sulphur Range 2%             | 50g   | B2306    |
| 767-758     | Coal Standard Sulphur Range 2.5%           | 50g   | B2307    |
| 767-759     | Coke Standard Sulphur Range 0.9%           | 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    |
| 771-373     | Reagent Tube                               | 1     | C4315    |
| 772-402     | Lance Assembly SC132/32/232                | 1     | C4202    |
| 772-520     | O Ring Furnace Filter/Filter Tube          | 1     | E1110    |
| 772-560     | Chopper Motor                              | 1     | E2743    |
| 772-738     | O Ring Catalyst Heater Assembly            | 1     | E1111    |
| 773-320     | O Ring Reagent Tube                        | 1     | E1113    |
| 773-928     | Delivery Tube Assembly                     | 1     | E2775    |
| 773-931     | Teflon Disconnect Block                    | 1     | E2377    |
| 773-932     | Combustion Tube Assembly SC132/32/232      | 1     | C4200    |
| 774-571     | Vacuum Pump SC32/132 24V DC                | 1     | E2376    |
| 775-306     | Secondary (screen) Filter                  | 1     | E2235    |
| 775-859     | Cleaning Brush                             | 1     | E2770    |
| 776-978     | Glass Scoop 1.5ml                          | 1     | E2720    |
| 777-073     | Thermocouple SC32/132/232                  | 1     | E2246    |
| 780-044     | Boat Puller Assembly                       | 1     | E2477    |
| 781-335     | Quartz Boat                                | 1     | C4508    |
| 782-059     | Nickel Liner                               | 10    | D5310    |
| 782-079-115 | Ceramic Boat Stop SC32/132/232             | 1     | C4102    |
| 782-428     | Quartz Catalyst Tube                       | 1     | C4323    |
| 783-030     | Lower Fitting Kit                          | 1     | E2773    |
| 783-177     | Heating Element SC232/132/32/CR-12 & CF-12 | 1     | E2748    |
| 783-299     | Combustion Tube                            | 1     | C4324    |
| 783-897     | O-Ring                                     | 1     | E1328    |

\*Leco® Part: 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.

## Eltra - Elemental Microanalysis

| Eltra Part <sup>1</sup> | Product  | Pack  | Cat. no. |
|-------------------------|--|-------|----------|
| 90200                   | EMADrone Magnesium Perchlorate                               | 454gm | B1161    |
| 90210                   | EMASorb A Granular 0.8 to 1.6mm, 14 to 25 mesh               | 500gm | B1162    |
| 90331                   | Glass Wool Borosilicate Fibres                               | 454gm | B1166    |
| 90331                   | Glass Wool Rope Borosilicate Fibres                          | 454gm | B1266    |
| 90800                   | Graphite Powder  | 100gm | B1516    |
| 90260                   | Iron Chip Accelerator  | 908gm | B1195    |
| 90240                   | Copper Metal Accelerator                                     | 3lb   | B1198    |
| 90234                   | Halogen Trap Material  | 200gm | B1526    |
| 90300                   | Iron Phosphate   | 100g  | B1300    |
| 90220                   | EMACEL - Tungsten  | 2.5kg | B1505    |
| 90330                   | Quartz (Silica) Wool Fine                                    | 50gm  | B1102    |
| 90270                   | Schutze Reagent  | 100gm | B1519    |
| 90340                   | Cellulose  | 454gm | B1520    |
| 90290                   | Rare Earth Copper Oxide Granular 0.85 to 1.7mm               | 50gm  | B1123    |
| 90280                   | Tin Metal Accelerator  | 908gm | B1507    |
| 90230                   | Vanadium Pentoxide Accelerator                               | 250gm | B1187    |
| 90810                   | Calcium Carbonate 12%  | 50gm  | B2250    |
| 14130                   | Combustion tube for CS800                                    | 1     | C4055    |
| 90155                   | Ceramic Boats Unglazed                                       | 500   | C4136    |
| 90150                   | Ceramic Crucible   | 1000  | C4500    |
| 90190                   | Graphite Crucible  | 100   | C4612    |
| 90162                   | Combustion Tube CS500  | 1     | C6503    |
| 09090                   | Reagent Tube 280x32mm CS500                                  | 1     | C6500    |
| 36101                   | Boat Stop CS500  | 1     | C6502    |
| 11064                   | Reagent Tube   | 1     | C6501    |
| 11062                   | Reagent tubes 160 x 16mm                                     | 2     | C6505    |
| 20040                   | Catalyst tube 200 x 16mm                                     | 1     | C6506    |
| 21120                   | Quartz tube for purification furnace                         | 1     | C6507    |
| 70320                   | O-Ring   | 1     | E1154    |
| 70330                   | O-Ring   | 1     | E1155    |
| 70380                   | O-Ring   | 1     | E1156    |
| 70410                   | O-Ring   | 1     | E1157    |
| 70230                   | O-Ring 9x3   | 1     | E1151    |
| 70280                   | O-Ring ON900 CS800 CS500 18x2                                | 1     | E1153    |
| 70270                   | O-Ring CS500 16x5  | 1     | E1152    |
| 70150                   | O-Ring CS500 6x2.5   | 1     | E1150    |
| 70026                   | Set of O-rings<br>(Contains 4xE1151 2xE1154 1xE1156 1xE1157) | 1     | E1210    |
| 70035                   | O Ring Set   | 1     | E1211    |
| 70030                   | O Ring Set   | 1     | E1212    |
| 31365                   | Graphite tip holder  | 1     | E2420    |
| 31360                   | Graphite Tip   | 1     | E2421    |
| 31345                   | Upper electrode insert                                       | 1     | E2422    |
| 71029                   | Cleaning brush for furnace                                   | 1     | E2423    |
| 77500                   | Heating Elements Set of 4                                    | 1     | E2426    |
| 75140                   | Safety Ring  | 1     | E2424    |
| 80926                   | Set of fuses   | 1     | E2427    |
| 92610                   | Silicone Grease  | 100gm | E2158    |
| 80927                   | Set of fuses   | 1     | E2428    |
| 11185                   | Paper Filters Pack of 10                                     | 1     | E2429    |
| 13067                   | Combustion Coil  | 1     | E2430    |
| 14045                   | Cleaning Brush for Combustion Tube                           | 1     | E2431    |
| 14072                   | Ceramic heat shield for brush                                | 1     | E2432    |
| 71030                   | Cleaning Brush for Metal Filter                              | 1     | E2433    |
| 80925                   | Set of Fuses   | 1     | E2434    |
| 14168                   | Pedestal   | 1     | E2435    |
| 11105                   | Metal Dust Trap CS500  | 1     | E2452    |
| 77425                   | Thermocouple   | 1     | E2425    |

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- Leco® SC-132
- Leco® SC-32
- Leco® SC-432
- Leco® CR-12
- Leco® CR-412
- Leco® RC-412
- Leco® SC-444
- Eltra CS-500

## Catalogues

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- CHNOS
- Nitrogen/Protein

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