

CONSUMABLES



The Material Difference

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Industrial VHG|ARMI|MBH Paragon Scientific



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LGC Industrial Catalog of Laboratory Consumables

At LGC Industrial we offer a wide range of consumables your laboratory may require for AA, ICP, ICP-MS, and XRF instruments. We also provide ColdBlock™ Digestion Systems and Fusion Fluxes for your sample preparation needs.

You've trusted us for decades to create superior reference materials and innovative measurement tools that support the quality of your analyses. Leveraging the synergies of the LGC Industrials product lines, we are joining together, VHG, ARMI, MBH, and Paragon Scientific, under

a single brand; Industrial. Building on our collective expertise, Industrial fosters the innovation and the agility necessary to create the measurement tools you rely on when developing, using, and transforming materials to achieve your mission.

LGC Industrial – The Material Difference

General Laboratory Consumables

Autosampler Tubes and Beakers

Our autosampler tubes are standard sizes and designed to fit many manufacturers' autosamplers.

Sample Tubes for ICP and ICP-MS Autosamplers				
Size	Material	Bottom	Quantity per pack	Product No.
13 x 100mm (~8mL)	Polypropylene	Round	1200	VHG-FPSC4-MP
17 x 100mm (~15mL)	Polypropylene	Round	1200	VHG-FPSC1-MP
Plug for FPSC1-MP	Polyethylene	Round	1200	VHG-FPSC1-MP-PLUG
Plug for FPSC4-MP	Polyethylene	Round	1200	VHG-FPSC4-MP-PLUG

Small Volume Sample Cups for AA, ICP and ICP-MS Autosamplers					
Size Material Bottom Quantity per pack Product No.					
9.1 x 23.6 mm (1.2mL)	Clarified Polypropylene	Cylindrical	2000	VHG-FAASC4-MP	
13 x 25mm (1.5 - 2.0mL) Clarified Polypropylene Conical 1000 VHG-FAASC3-MP					

Sample Tubes for Viscometer Autosamplers				
Size Material Bottom Quantity per pack Product No.				
2.3 x 6cm (15mL)	Polypropylene	Cylindrical	1000	VHG-FVISC-MPA

Sample Beakers for Titrator Autosamplers Suitable for titration/TAN/TBN, these sample cups have excellent visibility and good resistance to acids.				
Size Material Bottom Quantity per pack Product No.				
53.6 x 90.5 mm (100 mL)	Polypropylene	Mettler-Toledo™	450	VHG-FSB1-MP
43.3 x 113 mm (120 mL)	Polypropylene	Metrohm™	300	VHG-FSB2-MP

Digestion Vials with Cap				
Size Material Bottom Quantity per pack Product No.				
30 x 110 mm (50mL) w/cap	Polypropylene	Flat	500	VHG-FDIG1-MP

Tubing for Peristaltic Pumps			
Description	Quantity per pack	Product No.	
Black/Black Solvent Flex Peri-Pump Tubing, 2-Bridge, 0.76 mm (0.03")	12	VHG-D180209	
Red/Red Solvent Flex Peri-Pump Tubing, 2-Bridge, 1.14 mm (0.045")	12	VHG-D180207	

XRF Thin Films

LGC Industrial provides a range of special high-quality flms for X-Ray Fluorescence. For selection of the ideal flm, consider the material's transmission (especially important for "light elements"), purity, and physical strength.

Etnom ® Thin film substance that chemically resists attack by aliphatic and aromatic hydrocarbons. It offers the unique characteristic of contracting when exposed to petrochemical hydrocarbons. (Note: may contain Ca, P, Sb, Si, Zn)			
Description	Pack Size	Product No.	
Etnom Thin Film, 1.5µm (0.06mil)	Roll 7.6cm x 91.4m	ALK-095-V01	
Etnom Thin Film Sample Support, SpectroMembrane® 3.0 µm (0.12 mil), Ø 63.5mm	100/pack	ALK-095-V01	
Etnom Thin Film Sample Support, SpectroMembrane® 3.0 µm (0.12 mil) Ø 76mm	100/pack	ALK-3026-V01	
Etnom Thin Film Sample Support, SpectroMembrane® 2.5 µm (0.1 mil), Ø 76mm	100/pack	ALK-3030-V01	

Mylar® A strong and economical strong film that offers good chemical resistance. It is well spurpose aqueous sample solution containment. (Note: may contain Ca, Fe, P, Sb, Zn)		s analysis and general
Description	Pack Size	Product No.
Mylar Thin Film, 2.5µm (0.10mil)	Roll 7.6cm x 91.4m	ALK-100-V01
Mylar Thin Film, 2.5µm (0.10mil), Pre-Perforated Roll 7.6cm x 91.4m	1200 sheets	ALK-100-PP-V01
Mylar Thin Film, 2.5µm (0.10mil), Precut Circles Ø 63.5mm	500/pack	ALK-106-V01
Mylar Thin Film, 3.6µm (0.14mil)	Roll 7.6cm x 91.4m	ALK-150-V01
Mylar Thin Film, 3.6µm (0.14mil), Precut Circles Ø 63.5mm	500/pack	ALK-156-V01
Mylar Thin Film, 6.0µm (0.24mil)	Roll 7.6cm x 91.4m	ALK-250-V01
Mylar Thin Film, 6.0µm (0.24mil), Precut Circles Ø 63.5mm	500/pack	ALK-256-V01
Mylar Thin Film Sample Support, SpectroMembrane® 2.5 µm (0.1 mil), Ø 63.5mm	100/pack	ALK-3011-V01
Mylar Thin Film Sample Support, SpectroMembrane® 2.5 µm (0.1 mil), Ø 76mm	100/pack	ALK-3012-V01
Mylar Thin Film Sample Support, SpectroMembrane® 3.6 µm (0.14 mil), Ø 63.5mm	100/pack	ALK-3013-V01
Mylar Thin Film Sample Support, SpectroMembrane® 3.6 µm (0.14 mil), Ø 76mm	100/pack	ALK-3014-V01
Mylar Thin Film Sample Support, SpectroMembrane® 6.0 µm (0.24 mil), Ø 63.5mm	100/pack	ALK-3015-V01
Mylar Thin Film Sample Support, SpectroMembrane® 6.0 µm (0.24 mil), Ø 76mm	100/pack	ALK-3016-V01
Mylar Secondary Film, SpectroFilm® Self-Sticking Safety Film, 3.6 µm, Ø 35mm	25/pack	ALK-2020R35M3.6-V01

Prolene®

A good general purpose thin film for most chemical solution samples, except for those consisting of ethers or aromatic and halogenated hydrocarbons. Prolene thin film is a two constituent element combination of carbon and hydrogen. (Note: may contain Al, Ca, Cu, Fe, P, Ti, Zr)

Description	Pack Size	Product No.
Prolene Thin Film, 4.0µm (0.16mil)	Roll 7.6cm x 91.4m	ALK-416-V01
Prolene Thin Film, 4.0µm (0.16mil), Pre-Perforated Roll 7.6cm x 91.4m	1200 sheets	ALK-416-PP-V01
Prolene Thin Film, 4.0µm (0.16mil), Precut Circles Ø 63.5mm	500/pack	ALK-426-V01
Prolene Thin Film Sample Support, SpectroMembrane® 4.0 µm (0.16 mil), Ø 63.5mm	100/pack	ALK-3017-V01
Prolene Thin Film Sample Support, SpectroMembrane® 3.0 µm (0.12 mil), Ø 63.5mm	100/pack	ALK-3017A-V01
Prolene Thin Film Sample Support, SpectroMembrane® 4.0 µm (0.16 mil), Ø 76mm	100/pack	ALK-3018-V01
Prolene Thin Film Sample Support, SpectroMembrane® 3.0 µm (0.12 mil), Ø 76mm	100/pack	ALK-3018A-V01
Prolene Secondary Film, SpectroFilm® Self-Sticking Safety Film, 3.0 µm, Ø 42mm	25/pack	ALK-2042R6P3.0-V01

Polypropylene

General purpose film with good transmission and chemical resistance. It is noted for its high % transmittance for lighter elements in low to medium concentration ranges and exceptional transmittance for the heavier element spectral lines. (Note: may contain Al, Ca, Cu, Fe, P, Ti, Zr)

Description	Pack Size	Product No.
Polypropylene Thin Film, 6.0µm (0.24mil)	Roll 7.6cm x 91.4m	ALK-425-V01
Polypropylene Thin Film, 6.0µm (0.24mil), Precut Circles Ø 63.5mm	500/pack	ALK-436-V01
Polypropylene Thin Film, 12.0µm (0.50mil)	Roll 7.6cm x 91.4m	ALK-475-V01
Polypropylene Thin Film Sample Support, SpectroMembrane® 6.0 µm (0.24 mil), Ø 63.5mm	100/pack	ALK-3019-V01
Polypropylene Thin Film Sample Support, SpectroMembrane® 6.0 µm (0.24 mil), Ø 45mm	100/pack	ALK-3019-45-V01
Polypropylene Thin Film Sample Support, SpectroMembrane® 6.0 µm (0.24 mil), Ø 76mm	100/pack	ALK-3020-V01
Polypropylene Thin Film Sample Support, SpectroMembrane® 12.0µm (0.50 mil), Ø 76mm	100/pack	ALK-3024-V01
Microporous Polypropylene Gas Permeable Film Membrane	Roll 76.2mm x 5.08m	ALK-325-V01

Polyimide (Kapton®) Features high-strength, high-purity, chemical robustness, and withstands prolonged X-Ray irradiation.			
Description	Pack Size	Product No.	
Polyimide (Kapton) Thin Film Sample Support, SpectroMembrane® 7.5 μm (0.30 mil), Ø 63.5mm	100/pack	ALK-3021-5-V01	

Ultra-Polyester®

A relatively good general purpose thin film substance (similar to Mylar) that offers an excellent sample retention tensile strength. (Note: may contain Ca, Fe, P, Sb, Zn)

Description	Pack Size	Product No.
Ultra-Polyester Thin Film, 1.5µm (0.06mil)	Roll 7.6cm x 91.4m	ALK-090-V01
Ultra-Polyester Thin Film Sample Support, SpectroMembrane® 1.5 µm (0.06 mil), Ø 76mm	100/pack	ALK-3090-V01

XRF Sample Cups

Our XRF sample cups are available in a variety of dimensions and offer unique attributes to match your instrument needs.

Double Open End Cups		
Description	Quantity per Pack	Product No.
Double Open End Sample Cup, SpectroSulfur® Analyzer w/ TrimLess® Sleeve, Ø 42.9mm, Height 20.3mm	100	ALK-1080-V01
Double Open End Sample Cup, w/ TrimLess® Sleeve & Vented Cap (knob), Ø 43.4mm, Height 39.9mm	100	ALK-1095-V01
Double Open End Sample Cup, w/ TrimLess® Sleeve & Vented Cap (knob), Ø 43.4mm, Height 39.9mm	100	ALK-1330-SE-V01
Double Open End Sample Cup, w/ Snap-On Ring & Overflow Reservoir Cap, Ø 30.7mm, Height 22.9mm	100	ALK-1330-V01
Double Open End Sample Cup, w/ Snap-On Ring & Overflow Reservoir Cap, Ø 39.1mm, Height 23.1mm	100	ALK-1340-V01
Double Open End Sample Cup, w/ Microporous Film & Serrated Edge, Ø 31mm, Height 23.1mm	100	ALK-1530-SE-V01
Double Open End Sample Cup, w/ Microporous Film, Ø 31mm, Height 23.1mm	100	ALK-1530-V01
Double Open End Sample Cup, w/ Microporous Film, Ø 39.4mm, Height 23.1mm	100	ALK-1540-V01
Vented Cap for use w/ ALK-1530-V01 Sample Cups	100	ALK-1630-V01
Vented Cap for use w/ ALK-1540-V01 Sample Cups	100	ALK-1640-V01
Double Open End Sample Cup, for Top Sample Filling, Ø 39.4mm, Height 35.3mm	100	ALK-1940L-V01
Double Open End Sample Cup, for Top Sample Filling, Ø 39.4mm, Height 21.3mm	100	ALK-1940-V01
Double Open End Sample Cup, TrimLess® w/ Int. Overflow Reservoir & Vented Cap, Ø 30.9mm, Height 29.2mm	100	ALK-2131-V01
Double Open End Sample Cup, TrimLess® w/ Int. Overflow Reservoir & Vented Cap, Ø 31.5mm, Height 29.2mm	100	ALK-2132S-V01
Double Open End Sample Cup, TrimLess® w/ Int. Overflow Reservoir & Vented Cap, Ø 40.1mm, Height 29.7mm	100	ALK-2140-V01
Double Open End Sample Cup, TrimLess® w/ Int. Overflow Reservoir & Vented Cap, Ø 40.1mm, Height 29.7mm	100	ALK-2143-V01
Double Open End Sample Cup, TrimLess® w/ Int. Overflow Reservoir & Vented Cap (knob), Ø 40.1mm, Height 33.8mm	100	ALK-2144-V01
Double Open End Sample Cup, TrimLess® w/ Int. Overflow Reservoir & Vented Cap, Ø 44.7mm, Height 29.5mm	100	ALK-2145-V01
Double Open End Sample Cup, TrimLess® w/ Int. Overflow Reservoir & Vented Cap (knob), Ø 44.7mm, Height 33.5mm	100	ALK-2146-V01

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Section 3: XRF Sample Cups

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Double Open End Cups		
Description	Quantity per Pack	Product No.
Double Open End Sample Cup, TrimLess® w/ Int. Overflow Reservoir & Vented Cap (knob), Ø 43.4mm, Height 40.7mm	100	ALK-2195-V01
Double Open End Sample Cup, SpectroMicro® w/ Vented Cap, Ø 30.5mm, Aperture 6mm, Height 25.1mm	100	ALK-3106-V01
Double Open End Sample Cup, SpectroMicro® w/ Vented Cap, Ø 30.5mm, Aperture 10mm, Height 25.1mm	100	ALK-3110-V01
Double Open End Sample Cup, SpectroMicro® w/ Vented Cap, Ø 30.5mm, Aperture 15mm, Height 25.1mm	100	ALK-3115-V01
Double Open End Sample Cup, SpectroMicro® w/ Vented Cap, Ø 30.5mm, Aperture 20mm, Height 25.1mm	100	ALK-3120-V01

Single Open End Cups			
Description	Quantity per Pack	Product No.	
Single Open End Sample Cup, Ø 31mm, Height 22.4mm	100	ALK-1430-V01	
Single Open End Sample Cup, Ø 39.4mm, Height 22.4mm	100	ALK-1440-V01	
Single Open End Sample Cup, Ø 39.4mm, Height 35.1mm	100	ALK-1440L-V01	
Single Open End Sample Cup, w/ Snap-Post Venting, Ø 30.7mm, Height 23.1mm	100	ALK-1730-V01	
Single Open End Sample Cup, w/ Snap-Post Venting & Serrated Edge, Ø 30.7mm, Height 23.1mm	100	ALK-1730-SE-V01	
Single Open End Sample Cup, w/ Snap-Post Venting, Ø 39.1mm, Height 23.6mm	100	ALK-1740-V01	
Single Open End Sample Cup, w/ ThermoPlastic® Seal Venting & Ext. Overflow Reservoir, Ø 31.0mm, Height 22.1mm	100	ALK-1830-V01	
Single Open End Sample Cup, w/ ThermoPlastic® Seal Venting & Ext. Overflow Reservoir, Ø 39.1mm, Height 23.6mm	100	ALK-1840-V01	
Single Open End Sample Cup, SpectroSulfur® Analyzer Low Profile, Ø 42.9mm, Height 19.6mm	100	ALK-1850-V01	

Pelletizing Accessories		
Description	Quantity per Pack	Product No.
Compressible Tapered Aluminum Briquetting Cup, Ø 31.0mm, Height 8.5mm	1000	ALK-505-V01
Compressible Tapered Aluminum Briquetting Cup, Ø 39.7mm, Height 10.25mm	600	ALK-545-V01
Compressible Tapered Plastic Briquetting Cup, Ø 31.0mm, Height 6.5mm	500	ALK-552-V01
Compressible Tapered Plastic Briquetting Cup, Ø 39.7mm, Height 6.5mm	500	ALK-554-V01
SpectroBlend® Grinding/Briquetting Additive, 44µm Powder	454g	ALK-660-V01
SpectroBlend® Grinding/Briquetting Additive, 0.5g Tablets	500	ALK-690-V01

Additional Information

Instrument compatibility reference guide for XRF sample cups. (Note: this table serves as a guideline that only lists some of the known sample cup compatibilites. It is provided for reference purposes only, please check the dimensions of your instrument sample holder and compare them to the sample cup dimensions.)

Manufacturer	Models	Compatible Product No.			
Bruker	S2 Puma	ALK-2140-V01	ALK-2143-V01	ALK-2144-V01	
Bruker	S2 Puma w/ Xflash, S8 w/ Flex Loader	ALK-2143-V01	ALK-2144-V01		
Bruker	S2 Ranger	ALK-2143-V01			
Bruker	S4	ALK-2140-V01			
Bruker	S8 Tiger	ALK-1095-V01	ALK-2143-V01	ALK-2144-V01	ALK-2195-V01
Horiba	SLFA Units, Mesa 7220	ALK-1850-V01			
Innov-X	Hand Held Units	ALK-1330-V01	ALK-1330-SE-V01	ALK-1340-V01	
Oxford	Lab-X	ALK-1940L-V01			
Oxford	Replacement Cells 54-LX6922	ALK-1440L-V01			
Malvern Panalytical	Epsilon 5	ALK-2145-V01	ALK-2146-V01		
Malvern Panalytical	Venus 200	ALK-1095-V01	ALK-2195-V01		
Rigaku	Mini-Z	ALK-2140-V01			
Rigaku	Primus, Rix, ZSX-100	ALK-1095-V01	ALK-2195-V01		
		ALK-1330-V01	ALK-1330-SE-V01	ALK-1340-V01	ALK-1430-V01
	XEPOS, Xepos Low S, Xepos IQ, X-Lab 2000, 200, 200T Titan, Phoenix	ALK-1440-V01	ALK-1440L-V01	ALK-1530-V01	ALK-1530-SE-V01
Spectro		ALK-1540-V01	ALK-1730-V01	ALK-1730-SE-V01	ALK-1740-V01
		ALK-1830-V01	ALK-1840-V01	ALK-1850-V01	ALK-1940-V01
		ALK-2131-V01			
Spectro	Phoenix II	ALK-2131-V01			
Spectro	Scout	ALK-3106-V01	ALK-3110-V01	ALK-3115-V01	ALK-3120-V01
Thermo	Advant'x	ALK-2146-V01			
Xenemetrix	X-Calibur, X-Cite	ALK-1540-V01	ALK-2131-V01	ALK-2132S-V01	
XOS	Sindie®, Clora, Signal, HD Maxine, Phoebe, Petra	ALK-1850-V01			

Fusion Fluxes

Borate fusion is an effective method of preparing samples that either 1) due to inhomogeneity of particle size, density or composition are difficult to press as a homogeneous pellet for analysis by XRF, or 2) are difficult to dissolve in acid, for analysis by techniques such as AA.

Virtually all fusions are performed with borate compounds. Samples are mixed with a flux, and the mixture is heated until the sample is dissolved in the flux, yielding a melt that is homogeneous at the atomic level and can be cast as a glass disc for analysis by XRF or dissolved in HNO3 or HCl for AA and ICP analysis.

Fusion Fluxes			
Description	Pack Size	Product No.	
20% Lithium tetraborate : 80% Lithium metaborate; granular	1kg	VHG-VFLUX-20-80-G-1KG	
90% Lithium tetraborate, 10% Lithium fluoride	1kg	VHG-VFLUX-318-1KG	
35.05% Lithium tetraborate : 64.45% Lithium metaborate (12:22) + 0.5% LiBr; granular	1kg	VHG-VFLUX-35-64-BR-G-1KG	
35.05% Lithium tetraborate : 64.45% Lithium metaborate (12:22) + 0.5% Lil; granular	1kg	VHG-VFLUX-35-64-I-G-1KG	
35.3% Lithium tetraborate : 64.7% Lithium metaborate (12:22); granular	1kg	VHG-VFLUX-35.3-64.7-G-1KG	
49.75% Lithium tetraborate : 49.75% Lithium metaborate + 0.5% LiBr; granular	1kg	VHG-VFLUX-50-50-BR-G-1KG	
50% Lithium tetraborate : 50% Lithium metaborate; granular	1kg	VHG-VFLUX-50-50-G-1KG	
49.75% Lithium tetraborate : 49.75% Lithium metaborate + 0.5% Lil; granular	1kg	VHG-VFLUX-50-50-I-G-1KG	
65.75% Lithium tetraborate : 33.75% Lithium metaborate + 0.5% LiBr; granular	1kg	VHG-VFLUX-66-34-BR-G-1KG	
66% Lithium tetraborate : 34% Lithium metaborate; granular	1kg	VHG-VFLUX-66-34-G-1KG	
65.75% Lithium tetraborate : 33.75% Lithium metaborate + 0.5% Lil; granular	1kg	VHG-VFLUX-66-34-I-G-1KG	
99.5% Lithium metaborate + 0.5% LiBr; granular	1kg	VHG-VFLUX-LIM-BR-G-1KG	
100% Lithium metaborate; granular	1kg	VHG-VFLUX-LIM-G-1KG	
99.5% Lithium metaborate + 0.5% Lil; granular	1kg	VHG-VFLUX-LIM-I-G-1KG	
99.5% Lithium tetraborate + 0.5% LiBr; granular	1kg	VHG-VFLUX-LIT-BR-G-1KG	
100% Lithium tetraborate; granular	1kg	VHG-VFLUX-LIT-G-1KG	
100% Lithium tetraborate; granular	2kg	VHG-VFLUX-LIT-G-2KG	
99.5% Lithium tetraborate + 0.5% Lil; granular	1kg	VHG-VFLUX-LIT-I-G-1KG	
100% Lithium tetraborate; SPHERIC	1kg	VHG-VFLUX-LIT-SP-1KG	
100% Lithium Metaborate Flux in Granular Shape	1kg	VHG-VFLUX-100-G-1KG	

ColdBlock™ Digestion Technology

ColdBlock™ Digestion uses focused short-wave infrared radiation and a cooling block to shorten sample preparation time, accelerate sample throughput and achieve productivity gains more safely than other common methods of sample preparation.

ColdBlock Systems		
Description	Product No.	
12 Channel + Large Sample Size, includes HDC Controller, 24 quartz sample tubes	COLDBLOCK-CB12L	
15 Channel + Small Sample Size, Includes HDC Controller,30 Pyrex 50mL sample tubes	COLDBLOCK-CB15S	
24 Channel (2X12) + Large Sample Size, Includes HDC Controlled, 24 Quartz 50mL Sample Tubes and 24 Pyrex 200mL sample Tubes	COLDBLOCK-CB24L	
30 Channel + Small Sample Size, includes HDC Controller, 30 pyrex sample tubes	COLDBLOCK-CB30S	

Test Tubes & Tube Trays			
Description	Product No.		
Standard Pyrex Test Tube (up to 5g) for CB15S	COLDBLOCK-PYREXTUBE-CB15S		
Standard Pyrex Tube (up to 5g) for CB30S	COLDBLOCK-PYREXTUBE-CB30S		
Large Pyrex Tube (up to 30g) for CB6L or CB12L	COLDBLOCK-PYREXTUBE-LARGE		
Standard Pyrex Tube (up to 5g) for CB6L or CB12L	COLDBLOCK-PYREXTUBE-STD		
Standard Quartz Test Tube (up to 5g) for CB15S	COLDBLOCK-QUARTZTUBECB15S		
Standard Quartz Tube (up to 5g) for CB30S	COLDBLOCK-QUARTZTUBECB30S		
Large Quartz Tube (up to 30g) for CB12L	COLDBLOCK-QUARTZTUBE-LG		
Standard Quartz Tube (up to 5g) for CB12L	COLDBLOCK-QUARTZTUBE-STD		
Test Tube Tray for CB15S	COLDBLOCK-TRAY-CB15S		
Test Tube Tray for CB30S	COLDBLOCK-TRAY-CB30S		
Test Tube Tray for CB12L	COLDBLOCK-TRAY-CBL		

Replacement Parts		
Description	Product No.	
Coldblock Chiller	COLDBLOCK-CHILLER	
ColdBlock Hardware Controller	COLDBLOCK-HDC	
Coldblock 38mm omega lamp for CB12L	COLDBLOCK-LAMP-38MM	
Coldblock 54mm omega lamp for CB12L	COLDBLOCK-LAMP-54MM	
Coldblock segmented lamp for CB15S	COLDBLOCK-LAMP-CB15S	
Coldblock segmented lamp for CB30S	COLDBLOCK-LAMP-CB30S	





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* Indicates a Centre of Excellence

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