

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<b>Butterworth Laboratories Ltd</b>	
	<b>Issue No: 033    Issue date: 20 June 2017</b>	
	<b>54-56 Waldegrave Road</b> <b>Teddington</b> <b>Middlesex</b> <b>TW11 8NY</b>	<b>Contact: Mrs D Butterworth</b> <b>Tel: +44 (0)20 8977 0750</b> <b>Fax: +44 (0)20 8943 2624</b> <b>E-Mail: info@butterworth-labs.co.uk</b> <b>Website: www.butterworth-labs.co.uk</b>
<b>Testing performed at the above address only</b>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ELECTROPLATING, ANODISING and METAL FINISHING SOLUTIONS	<u>Chemical Tests</u>  Chloride Sulphate Aluminium Copper, Iron, Cadmium	Documented In-House Methods based on Published (BS, Canning Handbook) and Client Supplied Methods  BLM 184 by Gravimetry BLM 185 by Gravimetry BLM 187 by ICP-OES
HALONS, FIRE EXTINGUISHER MEDIA, REFRIGERANTS, CFC's, and INSULATING MATERIALS  Halons 1211 and 1301	<u>Chemical Tests</u>  Purity Water Acidity Non volatile residue, Sediment, Appearance	Documented In-House Methods based on Published Methods  BLM 164 by Gas Chromatography BLM 163 by Coulometric Karl Fischer Titration BLM 325 by Titrimetry BLM 389
HALONS, FIRE EXTINGUISHER MEDIA, REFRIGERANTS, CFC's, and INSULATING MATERIALS (cont'd)	<u>Chemical Tests (cont'd)</u>  Halogen Ion Non condensable gases	Documented In-House Methods based on Published Methods  BLM 423 BLM 415 by Gas Chromatography



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WATER and ASSOCIATED MATERIALS	<u>Chemical Tests</u>  Metals	Documented In-House Methods based on Published Standard (BS, ISO, MEWAM, EPA, DIN, ADAS) Methods  BLM 55G by ICP-OES
FLEXIBLE SCOPE ENCOMPASSING ORGANIC AND ORGANOMETALLIC MATERIALS; PHARMACEUTICALS; POLYMERS, PLASTICS AND RELATED MATERIALS; PETROCHEMICALS; SOILS, SEDIMENTS AND SOLID WASTE; PIGMENTS AND DYES, TO IN-HOUSE VALIDATION CRITERIA	<u>Chemical Tests</u>  Carbon Hydrogen Nitrogen  Calorific Value	Documented In-House methods  BLM 0G by Elemental Analyser  BLM 84G by Bomb Calorimetry
FLEXIBLE SCOPE ENCOMPASSING INORGANIC, ORGANIC AND ORGANOMETALLIC MATERIALS TO IN-HOUSE VALIDATION CRITERIA	<u>Chemical Tests</u>  Metals	Documented In-House methods  BLM 463G by microwave digestion and ICP-OES
FLEXIBLE SCOPE ENCOMPASSING AQUEOUS SOLUTIONS TO IN-HOUSE VALIDATION CRITERIA	<u>Chemical Tests</u>  Metals	Documented In-House methods  BLM 55G by ICP-OES



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FLEXIBLE SCOPE ENCOMPASSING AQUEOUS SOLUTIONS TO IN-HOUSE VALIDATION CRITERIA	Metals Lithium Beryllium Boron Magnesium Aluminium Phosphorus Calcium Scandium Titanium Vanadium Chromium Manganese Iron Cobalt Nickel Copper Zinc Gallium Germanium Arsenic Selenium Rubidium Strontium Yttrium Zirconium Molybdenum Ruthenium Rhodium Palladium Silver Cadmium Indium Tin Tellurium Caesium Barium Lanthanum Cerium Praseodymium Neodymium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium	Documented In-House methods  BLM 498G by ICP-MS



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FLEXIBLE SCOPE ENCOMPASSING AQUEOUS SOLUTIONS TO IN-HOUSE VALIDATION CRITERIA (cont'd.)	Metals (cont.) Antimony Ytterbium Lutetium Hafnium Tantalum Tungsten Rhenium Osmium Iridium Platinum Gold Mercury Thallium Lead Bismuth Thorium Uranium Thulium	Documented In-House methods  BLM 498G by ICP-MS
FLEXIBLE SCOPE ENCOMPASSING ORGANIC MATERIALS TO IN-HOUSE VALIDATION CRITERIA	Metals (cont.) Chromium Manganese Iron Cobalt Nickel Copper Zinc Gallium Germanium Arsenic Selenium Rubidium Strontium Yttrium Zirconium Molybdenum Ruthenium Rhodium Palladium Silver Cadmium Indium Tin Antimony Tellurium Cesium	Documented In-House methods  BLM 486G by microwave digestion and ICP-MS



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FLEXIBLE SCOPE ENCOMPASSING ORGANIC MATERIALS TO IN-HOUSE VALIDATION CRITERIA (cont.)	Metals (cont.) Tungsten Cerium Praseodymium Neodymium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium Thulium Ytterbium Lutetium Hafnium Tantalum Rhenium Osmium Iridium Platinum Gold Mercury Thallium Lead Bismuth Thorium Uranium Barium Lanthanum	Documented In-House methods  BLM 486G by microwave digestion and ICP-MS
END		