


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 17025:2017</p>	<p>Quartz Scientific Computing Limited t/a Quartz Scientific</p> <p>Issue No: 034 Issue date: 02 April 2025</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
AGGREGATES	<u>Chemical Tests and related Opinions and Interpretations</u>	
	Carbon dioxide content (reference method)	BS EN 196-2:2013
	Determination of water-soluble chloride salts using the Volhard method (reference method)	BS EN 1744-1:2009 + A1:2012
	Determination of water-soluble chloride salts by potentiometry (alternative method)	BS EN 1744-1:2009 + A1:2012
	Determination of water-soluble chloride salts using the Mohr method (alternative method)	BS EN 1744-1:2009 + A1:2012
	Determination of water-soluble sulfates	BS EN 1744-1:2009 + A1:2012
	Total sulfur content	BS EN 1744-1:2009 + A1:2012
	Determination of acid soluble sulfates	BS EN 1744-1:2009 + A1:2012
	Acid soluble sulphide	BS EN 1744-1:2009 + A1:2012
	Lightweight contaminators	BS EN 1744-1:2009 + A1:2012
	Determination of loss on ignition	BS EN 1744-1:2009 + A1:2012
	Acid soluble chloride salts	BS EN 1744-5:2006



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AGGREGATES (cont'd)	<u>Physical Tests</u>	
	Assessment of fines - methylene blue test	BS EN 933-9:2009+A1:2013
	Determination of the water content by drying in a ventilated oven	BS EN 1097-5:2008
CLAY BRICKS	<u>Chemical Tests and related Opinions and Interpretations</u>	
	Soluble salt content	BS EN 772-5:2016 - using ICPOES
	Sulfate content	BS 3921:1985
CEMENT	<u>Chemical Tests</u>	
	Determination of loss on ignition	BS EN 196-2:2013
	Gravimetric determination of sulfate	BS EN 196-2:2013
	Sulphide content	BS EN 196-2:2013
	Chloride content	BS EN 196-2:2013
	Alkali content - sodium and potassium	Sample preparation and extraction - BS EN 196-2:2013 Analysis using ICPOES by In-house method 29
CONCRETE - hardened	<u>Chemical Tests and related Opinions and Interpretations</u>	
	Cement & aggregate content	BS 1881:Part 124:2015 + A1:2021
	Loss on ignition	BS 1881:Part 124:2015 + A1:2021
	Capillary porosity	BS 1881:Part 124:2015 + A1:2021
	Original water/cement ratio	BS 1881:Part 124:2015 + A1:2021
	Chloride content – Volhard method	BS 1881:Part 124:2015 + A1:2021
	Chloride content – potentiometric method	BS 1881:Part 124:2015 + A1:2021



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CONCRETE - hardened (cont'd)	<u>Chemical Tests and related Opinions and Interpretations (cont'd)</u>	
	Sulphate content	BS 1881:Part 124:2015 + A1:2021
	Sulphide content	BS 1881:Part 124:2015 + A1:2021
	Sodium oxide & potassium oxide contents	Sampe preparation and extraction - BS 1881:Part 124:2015 + A1:2021 Analysis using ICPOES by In-house method 29
	Chloride content – potentiometric method	BS EN 14629:2007
	Presence of High Alumina Cement by rapid chemical method	BRE Information Sheet IS 15/74
	Carbonation	BS EN 14630:2006
	Soluble silca, aluminium, magnesium, iron	Sample preparation and extraction - BS 1881:Part 124:2015 + A1:2021 Analysis using ICPOES by In-house method 29
	<u>Physical Tests</u>	
	Water absorption	BS 1881:Part 122:2011
	Density	BS EN 12390-7:2019 + AC 2020
	Metallic fibre content	BS EN 14721:2005+A1:2007 BS EN 14488-7:2006
	Non-metallic fibre content	Documented In-House Method No 27 using crushing and separation techniques included in BS EN 14721:2005+A1:2007



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
GYPSUM BUILDING PLASTERS excluding premixed lightweight plasters	<u>Chemical Tests and related Opinions and Interpretations</u> Sulphur trioxide and calcium oxide content Soluble sodium and magnesium salt content Loss on ignition Free lime content	BS 1191:Part 1:1973 BS 1191:Part 1:1973 – using ICPOES BS 1191:Part 1:1973 BS 1191:Part 1:1973
GYPSUM BUILDING PLASTERS - premixed lightweight plasters	<u>Chemical Tests and related Opinions and Interpretations</u> Soluble sodium and magnesium salt content Free lime content Sulfate	BS 1191:Part 2:1973 – using ICPOES BS 1191:Part 2:1973 BS EN 13279-2:2014
MASONRY UNITS	<u>Chemical Tests</u> Soluble sodium, potassium and magnesium salt content	BS EN 772-5:2016
MORTAR and SCREED	<u>Chemical Tests and related Opinions and Interpretations</u> Insoluble residue and soluble silica Calcium oxide content Sulfur trioxide content Iron content (as Fe ₂ O ₃) Aluminium oxide content (as Al ₂ O ₃)	BS 4551:2005+A1:2013 BS 4551:2005+A2:2013 BS 4551:2005+A2:2013 Sample preparation and extraction - BS 4551:2005+A2:2013 Analysis using ICPOES by In-house method 29 Sample preparation and extraction - BS 4551:2005+A2:2013 Analysis using ICPOES by In-house method 29



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MORTAR and SCREED (cont'd)	<u>Chemical Tests and related Opinions and Interpretations (cont'd)</u>	
	Magnesium Oxide (MgO)	Sample preparation and extraction - BS 4551:2005+A2:2013 Analysis using ICPOES by In-house method 29
	Soluble silica	Sample preparation and extraction - BS 4551:2005+A2:2013 Analysis using ICPOES by In-house method 29
	Mix proportions	BS 4551:2005+A2:2013
PAINT	<u>Chemical Tests</u>	
	Total lead	Sample preparation and extraction - BS 3900:Part B4:1986 Analysis using ICPOES by In-house method 28
	Chromium	In-house method 28 using ICPOES
SALT for spreading on highways for winter maintenance	<u>Chemical Tests and related Opinions and Interpretations</u>	
	Chloride	BS 3247:2011 +A1:2016
	Soluble sulphate compounds	BS 3247:2011 +A1:2016
SOILS for civil engineering purposes	<u>Chemical Tests</u>	
	Organic matter content	BS 1377:Part 3:1990
	Mass loss on ignition	BS 1377:Part 3:1990
	Sulphate content of soil and ground water - gravimetric method	BS 1377:Part 3:1990
	Carbonate content	BS 1377:Part 3:1990
	Water-soluble chloride content	BS 1377:Part 3:1990
	Acid-soluble chloride content	BS 1377:Part 3:1990



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SOILS for civil engineering purposes (cont'd)	<u>Chemical Tests</u> (cont'd) Total dissolved solids pH value <u>Physical Tests</u> Moisture content - oven drying method	BS 1377:Part 3:1990 BS 1377:Part 3:1990 BS 1377:Part 2:1990
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014
WATER for making concrete	<u>Chemical Tests</u> Qualitative preliminary inspection of mixing water Suitability of mixing water for concrete by quantitative appraisal - chloride - sulfate - sugar - phosphate - nitrate Suitability of mixing water for concrete by quantitative appraisal - sodium - potassium - lead - zinc	BS EN 1008:2002 BS EN 1008:2002 In-house method 22 using ICPOES
END		