


# 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>	<b>Quartz Scientific Computing Limited t/a Quartz Scientific</b>	
	<b>Issue No: 035 Issue date: 11 May 2026</b>	
	<b>Unit 6</b> <b>Park industrial Estate</b> <b>Frogmore</b> <b>St Albans</b> <b>AL2 2DR</b>	<b>Contact: Dr I Girling</b> <b>Tel: +44 (0)1923 213983</b> <b>E-Mail: <a href="mailto:igirling@quartzscientific.co.uk">igirling@quartzscientific.co.uk</a></b> <b>Website: <a href="http://www.quartz-scientific.co.uk">www.quartz-scientific.co.uk</a></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
AGGREGATES	<u>Chemical Tests and related Opinions and Interpretations</u>	
	Determination of Total Carbonate Content (reference method)	BS EN 196-2:2025
	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 Determination of the water content by drying in a ventilated oven	BS EN 933-9:2009+A1:2013 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
CEMENT	<u>Chemical Tests</u> Sulfate content Determination of loss on ignition Determination of Sulfate Determination of Sulfide Determination of Chloride Alkali content - sodium and potassium	BS 3921:1985 BS EN 196-2:2025 BS EN 196-2:2025 BS EN 196-2:2025 BS EN 196-2:2025 Sample preparation and extraction - BS EN 196-2:2025 Analysis using ICPOES by In-house method 29
CONCRETE - hardened	<u>Chemical Tests and related Opinions and Interpretations</u> Cement & aggregate content Loss on ignition Capillary porosity Original water/cement ratio Chloride content – Volhard method Chloride content – potentiometric method	BS 1881:Part 124:2015 + A1:2021 BS 1881:Part 124:2015 + A1:2021 BS 1881:Part 124:2015 + A1:2021 BS 1881:Part 124:2015 + A1:2021 BS 1881:Part 124:2015 + A1:2021 BS 1881:Part 124:2015 + A1:2021



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



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GYPSUM BUILDING PLASTERS excluding premixed lightweight plasters	<u>Chemical Tests and related Opinions and Interpretations</u>	
	Sulphur trioxide and calcium oxide content	BS 1191:Part 1:1973
	Soluble sodium and magnesium salt content	BS 1191:Part 1:1973 – using ICPOES
	Loss on ignition	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	BS 1191:Part 2:1973 – using ICPOES
	Free lime content	BS 1191:Part 2:1973
	Sulfate	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>	
	Chloride Content	BS4551:2005+A2:2013
	Insoluble residue and soluble silica	BS 4551:2005+A1:2013
	Calcium oxide content	BS 4551:2005+A2:2013
	Sulfur trioxide content	BS 4551:2005+A2:2013
	Iron content (as Fe <sub>2</sub> O <sub>3</sub> )	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>  Aluminium oxide content (as Al <sub>2</sub> O <sub>3</sub> )  Magnesium Oxide (MgO)  Soluble silica  Mix proportions	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  Sample preparation and extraction - BS 4551:2005+A2:2013 Analysis using ICPOES by In-house method 29  BS 4551:2005+A2:2013
PAINT	<u>Chemical Tests</u>  Total lead  Chromium	Sample preparation and extraction - BS 3900:Part B4:1986 Analysis using ICPOES by In-house method 28  In-house method 28 using ICPOES
SALT for spreading on highways for winter maintenance	<u>Chemical Tests and related Opinions and Interpretations</u>  Chloride  Soluble sulphate compounds	BS 3247:2011 +A1:2016  BS 3247:2011 +A1:2016
SOILS for civil engineering purposes	<u>Chemical Tests</u>  Organic matter content  Mass loss on ignition  Sulphate content of soil and ground water - gravimetric method	BS 1377:Part 3:1990  BS 1377:Part 3:1990  BS 1377:Part 3:1990



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SOILS for civil engineering purposes (cont'd)	<u>Chemical Tests</u> (cont'd) Carbonate content Water-soluble chloride content Acid-soluble chloride content 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 3:1990 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		