

Additional information and clarification of content should be directed to the
Technical Services Department either by:

Telephone: 01337 840461

Email: technicalservices.northern@breedongroup.com



ORROCK QUARRY

Kirkcaldy

Fife

KY2 5XD

Technical Services Dept

Clatchard Laboratory

Clatchard Quarry

Cupar Road

Newburgh

Fife, KY14 6JJ

Tel: 01337 840461

Fax: 01337 841990

01592 872661

Date Sampled	Property	Specification	Result	Unit
23/08/2018	Particle Density & Absorption (<i>PD&A</i>)	<i>BS EN 1097-6</i>		
	<i>Apparent Density (A)</i>		2.98	Mg/m ³
	<i>Oven Dried Density (OD)</i>		2.91	Mg/m ³
	<i>Saturated Surface Dry Density (SSD)</i>		2.93	Mg/m ³
	<i>Water Absorption (WA)</i>		0.8	%
23/08/2018	Polished Stone Value (<i>PSV</i>)	<i>BS EN 1097: Part 8</i>	53	Value
19/06/2018	Polished Stone Value (<i>PSV</i>)	<i>BS EN 1097: Part 8</i>	50	Value
16/08/2016	Polished Stone Value (<i>PSV</i>)	<i>BS EN 1097: Part 8</i>	54	Value
23/08/2018	Aggregate Abrasion Value (<i>AAV</i>)	<i>BS EN 1097: Part 8</i>	1.1	Value
23/08/2018	Magnesium Sulphate Soundness Value (<i>MSSV</i>)	<i>BS EN 1367: Part 2</i>	2	%
23/08/2018	Los Angeles Coefficient Value (<i>LA</i>)	<i>BS EN 1097: Part 2</i>	12	%
	Los Angeles Coefficient Value (<i>LA - Rail Ballast</i>)	<i>BS EN 1097: Part 2</i>		%
23/08/2018	Micro Deval (<i>MD - Aggregate</i>)	<i>BS EN 1097: Part 1</i>	9	Value
	Micro Deval (<i>MD - Rail Ballast</i>)	<i>BS EN 1097: Part 1</i>		Value
07/01/2016	Alkali Silica Reactivity (<i>ASR</i>)	<i>BS812: 104 & BS EN 932: 3</i>	Low	n/a
23/08/2018	Drying Shrinkage Value (<i>Dshrink</i>)	<i>BS EN 1367: Part 4</i>	0.049	%
	Linear Coefficient of Thermal Expansion (<i>LCoTE</i>)	<i>3PC/06/01</i>		mm/°C
23/08/2018	Frost Heave (<i>FH - Type I Sub-Base</i>)	<i>BS 812: Part 124</i>	0.5	mm
23/08/2018	Plasticity	<i>BS 1377: Part 2</i>	NP	n/a
20/02/2014	Frost Heave (<i>FH - Recycled Type I Sub-Base</i>)	<i>BS 812: Part 124</i>	4.3	mm
20/02/2014	Plasticity	<i>BS 1377: Part 2</i>	NP	n/a
23/08/2018	Potential Hydrogen Value	<i>BS 1377: Part 3: clause 9</i>	9.8	Value
23/08/2018	Acid Soluble Chloride Ion Content (<i>C</i>)	<i>BS EN 1744: Part 5</i>	<0.01	%
23/08/2018	Water Soluble Chloride Ion Content (<i>C</i>)	<i>BS EN 1744: Part 1: clause 7</i>	<0.001	%
23/08/2018	Water Soluble Sulphate Content (<i>SO₃</i>)	<i>BS EN 1744: Part : clause 10.1</i>	<0.01	%
23/08/2018	Water Soluble Sulphate Content (<i>SO₄</i>)	<i>BS EN 1744: Part : clause 10.1</i>	<0.01	%
	Water Soluble Sulphate Content (<i>SO₄</i>)	<i>BS EN 1744: Part : clause 10.1</i>		mg/l
23/08/2018	Total Sulphur Content (<i>S</i>)	<i>BS EN 1744: Part : clause 11</i>	<0.1	%
23/08/2018	Total Sulphur Content (<i>S</i>) (<i>SO₄</i>)	<i>BS EN 1744: Part : clause 11</i>	<0.3	%
23/08/2018	Acid Soluble Sulphate Content (<i>SO₃</i>)	<i>BS EN 1744: Part : clause 12</i>	<0.1	%
23/08/2018	Acid Soluble Sulphate Content (<i>SO₄</i>)	<i>BS EN 1744: Part : clause 12</i>	<0.12	%
23/08/2018	Acid Soluble Sulphides Content (<i>S</i>)	<i>BS EN 1744: Part 1: clause 13</i>	0.08	%
23/08/2018	Calcium Carbonate Equivalent Content (<i>CaCO₃</i>)	<i>BS EN 196: Part 2</i>	3.77	%