

Unit: BARDON HILL QUARRY
Address: Bardon Hill
Coalville
Leicestershire

Date Issued : 13th October 2015

Aggregate Type:-	Crushed granite
Aggregate Colour:-	Grey

AGGREGATE PROPERTIES SUMMARY DATA SHEET

Test Description	Specification Reference	Type 1	STR No.	Date	Dust	STR No.	Date	6mm	STR No.	Date
Particle Density (Mg/m ³)	Apparent	2.76	416039	Jun-15	2.65	416004	Jun-15	2.66	416018	Jun-15
	S.S.D	2.72			2.64			2.62		
	Oven Dry	2.69			2.63			2.6		
Water Absorption (%)		1			0.1			0.9		
Chemical Analysis* -	SiO ₂				58.66	416005	Jul-15			
	TiO ₂				0.04					
	Al ₂ O ₃				15.06					
	Fe ₂ O ₃				7.95					
	Mn ₃ O ₄				0.13					
	MgO				4.33					
	CaO				5.25					
	Na ₂ O				3.11					
	K ₂ O				0.67					
	P ₂ O ₅				0.04					
	BaO				0.02					
	SO ₃				<0.01					
	Loss on Ignition				4.20					
Water Soluble Chloride Ion Content	BS EN 1744-1				<0.001	416006	Jun-15			
Water Soluble Sulfate Content SO ₃	BS EN 1744-1	0.04	416040	Jun-15	<0.01	416007	Jun-15			
Acid Soluble Sulfate Content SO ₃	BS EN 1744-1	0.2	416041	Jun-15	<0.1	416008	Jun-15			
Total Sulfur Content	BS EN 1744-1				<0.1	416009	Jun-15			
Frost Heave	BS 812 : Part 124 : 1989	5.5	416042	Jul-15						
Drying Shrinkage										
Petrographical Examination*										
Magnesium Sulphate Soundness Value	BS EN 1367-2				5	416010	Jul-15			
Methylene Blue (MB) Value	BS EN 933-9				0.8	416013	Jun-15			
Bulk Density Loose (Mg/m ³)	EN 1097-3 : 1998	1.39	416043	Jul-15	1.4	416014	Jul-15	1.28	416019	Jul-15
Bulk Density Compacted (Mg/m ³)	EN 1097-3 : 1998 Annex D.1	1.87			1.82			1.50		
Plastic Limit (%)	BS 1377 : Part 2 : 1990	NP	416044	Jun-15						
pH Value	BS 1377 : Part 3 : 1990				9	416015	Jun-15			
Organic Content	BS 1377 : Part 3 : 1990									
Calcium Carbonate Equivalent (%)	EN 196-21 : 1992				3.34	416016	Jun-15			
Redox Potential*	DTp SHW Clause 638	420	416045	Jul-15						
Resistivity - Saturated After 1 hour(Ω m)	BS 1377 : Part 3 : 1990	9	416505	Jul-15						
Lightweight Contaminators	BS EN 1744-1				<0.1	416017	Jun-15			
All tests carried out are UKAS accredited unless otherwise denoted by *										
Comments:										
* Full report available upon request										

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Aggregate Type:-	Crushed granite
Aggregate Colour:-	Grey

AGGREGATE PROPERTIES SUMMARY DATA SHEET

Test Description		Specification Reference	10mm	STR No.	Date	14mm	STR No.	Date	20mm	STR No.	Date
Particle Density (Mg/m ³)	Apparent	EN 1097-6 : 2000	2.78	416020	Jun-15	2.83	416023	Jun-15	2.80	416035	Jun-15
	S.S.D		2.74			2.81			2.78		
	Oven Dry		2.72			2.79			2.76		
Water Absorption (%)			0.8			0.4			0.5		
Aggregate Impact Value (Dry)		BS 812 Pt 112				11	416024	Jun-15			
Aggregate Impact Value (Soaked)		BS 812 Pt 112				12	416025	Jun-15			
Aggregate Crushing Value		BS 812 Pt 110				13	416026	Jun-15			
Aggregate Abrasion Value		BS EN 1097-8				2.3	416027	Jun-15			
10% Fines Value (Dry)		BS 812 Pt 111				320	416028	Jun-15			
10% Fines Value (Soaked)		BS 812 Pt 111				270	416029	Jun-15			
Water Soluble Chloride Ion Content		BS EN 1744-1				<0.001	416030	Jun-15			
Polished Stone Value		BS EN 1097-8	60	413656	May-15						
Micro Deval Coefficient		BS EN 1097-1				12	416031	Jun-15			
Los Angeles Coefficient		BS EN 1097-2				14	416032	Jun-15			
Petrographical Examination*						Low	416033	Jun-15			
Bulk Density Loose (Mg/m3)		EN 1097-3 : 1998	1.33	416022	Jul-15	1.37	416034	Jul-15	1.31	416036	Jul-15
Bulk Density Compacted (Mg/m3)		EN 1097-3 : 1998 Annex D.1	1.54			1.6			1.57		
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Comments:											
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Test Description		Specification Reference	32mm	STR No.	Date						
Particle Density (Mg/m³)	Apparent	EN 1097-6 : 2000	2.81	416037	Jun-15						
	S.S.D		2.79								
	Oven Dry		2.78								
Water Absorption (%)			0.3								
Bulk Density Loose (Mg/m3)		EN 1097-3 : 1998	1.31	416038	Jul-15						
Bulk Density Compacted (Mg/m3)		EN 1097-3 : 1998 Annex D.1	1.59								
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E.R.Goulden - Technical Director