



**DOWLOW QUARRY, STERNDAL MOOR, BUXTON, DERBYSHIRE, SK17
9QF**

PETROLOGICAL CLASSIFICATION: DOLOMITIC LIMESTONE

TEST METHOD	BS EN / BS812	RESULT	DATE	REPORT N°
Oven-Dried Particle Density – 10mm	1097- 6 : 2000	2.61Mg/m ³	10/03/16	WRL/16/0497Fpdwa
S.S.D. Particle Density – 10mm	1097- 6 : 2000	2.63Mg/m ³	10/03/16	WRL/16/0497Fpdwa
Apparent Particle Density – 10mm	1097- 6 : 2000	2.67Mg/m ³	10/03/16	WRL/16/0497Fpdwa
Water Absorption – 10mm	1097- 6 : 2000	0.7%	10/03/16	WRL/16/0497Fpdwa
Aggregate Impact Value (Dry)	812:Part 112	21%	10/03/16	STR 460081
Aggregate Impact Value (Wet)	812:Part 112	14%	10/03/16	STR 460082
Aggregate Abrasion Value	1097 - 8 : 2009	13	10/03/16	STR 456093
Micro Deval Coefficient	1097 - 1 : 2011	17	10/03/16	STR 456091
Los Angeles Coefficient (LA)	1097 - 2 : 2010	24	10/03/16	WRL/16/0478la
Methylene Blue (MB)	933 - 9 : 2009	0.3g/kg	10/03/16	STR 456085
Water Soluble Chloride Ion Content	1744-1 : 2009	<0.001%	10/03/16	STR 456131
Total Sulfur Content	1744-1:2009	<0.1%	10/03/16	STR 456134
Calcium Carbonate Equivalent	196-2 : 2005	96.6%	10/03/16	STR 456098
Water Soluble Sulfate Content SO ₃	1744-1:2009	<0.01%	10/03/16	STR 456096
10% Fines Value (Dry)	812:Part 111	180kN	10/03/16	STR 456089
10% Fines Value (Soaked)	812:Part 111	170kN	10/03/16	STR 456090
Magnesium Sulfate Value	1367 – 2 : 2009	0.35	10/03/16	WRL/16/0478ms
Acid Soluble Sulfate Content	1744-1:2009	<0.10%	10/03/16	STR 456097
Water Soluble Sulfate as SO ₄	TRL Report 447	35mg/l	16/02/2015	50186502/15/27
Oxidisable Sulphide as SO ₄	TRL Report 447	<0.01%	16/02/2015	50186502/15/27
Acid Soluble Sulphate as SO ₄	TRL Report 447	N/A	16/02/2015	50186502/15/27
Total Potential Sulphate as SO ₄	TRL Report 447	0.02%	16/02/2015	50186502/15/27

TEST METHOD	RESULT	DATE	REPORT N°	PSV Results (BS EN 1097-8)		
Frost Heave	9.3mm	16/02/15	50186502/15/20	38	10/03/16	STR 456092
Frost Heave OMC	7.5%	16/02/15	50186502/15/18			
Dry Density	2.06Mg/m ³	16/02/15	50186502/15/18			

CHEMICAL ANALYSIS	
Date: 11/03/15	(15987)-6167
SiO ₂	3.31%
TiO ₂	0.06%
Al ₂ O ₃	1.10%
Fe ₂ O ₃	1.00%
MgO	0.26%
Mn ₃ O ₄	0.04%
CaO	52.19%
K ₂ O	0.18%
Na ₂ O	<0.03%
P ₂ O ₅	0.02
Loss on Ignition	41.56%