

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

**PETROLOGICAL CLASSIFICATION: CARBONIFEROUS LIMESTONE**

TEST METHOD	BS EN / BS812	RESULT	DATE	REPORT N°
Oven-Dried Particle Density – 6.3/14mm	1097- 6 : 2013	2.59Mg/m <sup>3</sup>	18/04/2018	STR 585581
S.S.D. Particle Density – 6.3/14mm	1097- 6 : 2013	2.62Mg/m <sup>3</sup>	18/04/2018	STR 585581
Apparent Particle Density – 6.3/14mm	1097- 6 : 2000	2.68Mg/m <sup>3</sup>	18/04/2018	STR 585581
Water Absorption – 6.3/14mm	1097- 6 : 2000	1.3%	18/04/2018	STR 585581
Aggregate Crushing Value	812:Part 112	23	18/04/2018	STR 585575
Aggregate Impact Value (Dry)	812:Part 112	12	18/04/2018	STR 585573
Aggregate Abrasion Value	1097 - 8 : 2009	12	18/04/2018	STR 585574
Micro Deval Coefficient	1097 - 1 : 2011	17	18/04/2018	STR 585579
Los Angeles Coefficient (LA)	1097 - 2 : 2010	24	18/04/2018	STR 585576
Methylene Blue (MB)	933 - 9 : 2009	0.5g/kg	03/04/2018	STR 585566
Chloride Ion Content	1744-1 : 2009	<0.001%	06/04/2018	STR 585611
Total Sulfur Content	1744-1:2009	<0.1%	06/04/2018	STR 585613
Calcium Carbonate Equivalent	196-2 : 2005	99.10%	06/04/2018	STR 585609
Water Soluble Sulfate Content SO <sub>3</sub>	1744-1:2009	<0.01%	09/04/2018	STR 585636
10% Fines Value (Dry)	812:Part 111	170kN	18/04/2018	STR 585578
10% Fines Value (Soaked)	812:Part 111	170kN	18/04/2018	STR 585578
Magnesium Sulfate Value	1367 – 2 : 2009	1.0	19/04/2018	STR 585580
Acid Soluble Sulfate Content	1744-1:2009	<0.14%	06/04/2018	STR 585614
pH	1377:Part 3:1990	8.5	22/05/2018	STR 597366
Oxidisable Sulphide as SO <sub>4</sub>	TRL Report 447	<0.01%	06/04/2018	STR 585634
Acid Soluble Sulphate Content	1377:1990	0.04	06-04-2018	STR 585632
Neutralising Value	6463-102 :2001	53.5%	06/04/2018	STR 585638
Microbial Activity Index	TRRL	2	05-04-2018	STR 585631
Drying Shrinkage	1367-4:2008	0.019%	23-04-2018	STR 585585

TEST METHOD	RESULT	DATE	REPORT N°	PSV Results (BS EN 1097-8)		
Frost Heave	9.2mm	08/05/2018	STR 585596	<b>41</b>	24/08/2018	STR 617155
Frost Heave OMC	5.0%	05/04/2018	STR 585599			
Dry Density	2.19Mg/m <sup>3</sup>	05/04/2018	STR 585599			

CHEMICAL ANALYSIS	
Date: 06/04/2018	STR 585617
SiO <sub>2</sub>	0.54%
TiO <sub>2</sub>	0.03%
Al <sub>2</sub> O <sub>3</sub>	0.14%
Fe <sub>2</sub> O <sub>3</sub>	0.06%
MgO	0.25%
Mn <sub>3</sub> O <sub>4</sub>	0.02%
SO <sub>3</sub>	0.04
CaO	55.37%
K <sub>2</sub> O	<0.01%
Na <sub>2</sub> O	<0.02%
BaO	<0.01
P <sub>2</sub> O <sub>5</sub>	0.03
Loss on Ignition	43.50%

All tests carried out by UKAS approved Laboratory unless denoted \*

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