

Hanson Quarry Products
Machen Quarry
Newport
Gwent
CF83 8YP

Data Sheet Prepared By:

Celtest Limited,
Trefelin, Bangor,
Gwynedd, LL57 4LH



Unit : Whatley Quarry
Address : Frome
Somerset
BA11 3LF
Telephone :

Rock Type	Limestone
Particle Shape	Irregular - Chipped

AGGREGATE PROPERTIES SUMMARY DATA SHEET

Test Description		Specification Reference	Coarse	STR No.	Date	0/4mm Limestone Dust	STR No.	Date
Particle Density (Mg/m ³)	Oven Dry	EN 1097-6	2.68	943049	Mar-23	2.67	943054	Mar-23
	S.S.D		2.69			2.69		
	Apparent		2.71			2.71		
Water Absorption (%)			0.4			0.5		
Aggregate Abrasion Value (AAV)		EN 1097-8	9.1	897792	Aug-22			
Los Angeles Abrasion (LA)		EN 1097-2	18	930184	Jan-23			
Magnesium Sulfate Soundness Value		EN 1367-2	4	928604	Dec-22			
Drying Shrinkage (%)		EN 1367-4	0.024	897796	Aug-22			
Micro Deval (MD)		EN 1097-1	19	897797	Aug-22			
Chloride Ion Content (%)		EN 1744-1				0.001	897777	Aug-22
Total Acid Soluble Sulfate (%)		EN 1744-1	<0.1	930185	Jan-23	<0.1	930188	Jan-23
Total Sulfur Content (%)		EN 1744-1	<0.1	930186	Jan-23	0.1	930189	Jan-23
Bulk Density Loose (Mg/m ³)		EN 1097-3	1.38	930181	Jan-23	1.50	930187	Jan-23
Bulk Density Compacted (Mg/m ³)		EN 1097-3	1.45			1.68		
Calcium Carbonate Equivalent (%)		EN 196-2				82.73	897781	Aug-22
pH Value		BS 1377 : Part 3				8.6	897783	Aug-22
Lightweight Contaminators (%)		EN 1744-1				<0.1	897784	Aug-22
Angle of Internal Friction (°)		SHW HMSO Cl 636	50	897832	Aug-22			
Frost Heave (mm)		BS 812 : Part 124	2.3	897835	Aug-22			
Petrographic Analysis*		EN 932-3	Normal	897801	Aug-22			
Plastic Limit (%)		BS 1377 : Part 2	Non-Plastic	897838	Aug-22			
Humus Content		EN 1744-1				Negative	897786	Aug-22
Fulvo Content		EN 1744-1				Negative	897787	Aug-22
Chemical Analysis - *XRF Method	Na ₂ O					0.03	897782	Aug-22
	MgO					1.46		
	Al ₂ O ₃					1.39		
	SiO ₂					8.59		
	P ₂ O ₅					0.05		
	SO ₃					0.41		
	K ₂ O					0.43		
	CaO					47.45		
	TiO ₂					0.05		
	Mn ₃ O ₄					0.07		
	Fe ₂ O ₃					0.56		
	BaO					0.13		
Loss on Ignition						39.2		

All tests carried out are UKAS accredited unless otherwise denoted by *

Comments:

This simplified report contains limited information. The individual test reports (TR reference number) include all mandatory information and are available upon request.

Mathew Sayer - Aggregate Team Manager

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Unit : Whatley Quarry
Address : Frome
Somerset
BA11 3LF
Telephone :

Date Issued : 17.04.23

Rock Type	Limestone
Particle Shape	Irregular - Chipped

AGGREGATE PROPERTIES SUMMARY DATA SHEET

Test Description		Specification Reference	Limestone Sand	STR No.	Date	0/2mm Limestone Dust	STR No.	Date
Particle Density (Mg/m ³)	Oven Dry	EN 1097-6	2.69	943066	Mar-23	2.68	943059	Mar-23
	S.S.D		2.70			2.69		
	Apparent		2.71			2.71		
Water Absorption (%)			0.3			0.4		
Chloride Ion Content (%)		EN 1744-1	<0.001	897819	Aug-22	0.002	897805	Aug-22
Total Acid Soluble Sulfate (%)		EN 1744-1	0.2	930191	Jan-23	<0.1	930195	Jan-23
Total Sulfur Content (%)		EN 1744-1	0.2	930192	Jan-23	<0.1	930196	Jan-23
Bulk Density Loose (Mg/m3)		EN 1097-3	1.57	930190	Jan-23	1.52	930194	Jan-23
Bulk Density Compacted (Mg/m3)		EN 1097-3	1.71			1.65		
Calcium Carbonate Equivalent (%)		EN 196-2	86.57	897823	Aug-22	81.91	897809	Aug-22
pH Value		BS 1377 : Part 3	8.8	897830	Aug-22	8.7	897811	Aug-22
Lightweight Contaminators (%)		EN 1744-1	<0.1	897825	Aug-22	<0.1	897812	Aug-22
Humus Content		EN 1744-1	Negative	897827	Aug-22	Negative	897814	Aug-22
Fulvo Content		EN 1744-1	Negative	897828	Aug-22	Negative	897815	Aug-22
Chemical Analysis - *XRF Method	Na ₂ O		0.04	897824	Aug-22	0.04	897810	Aug-22
	MgO		2.82			2.26		
	Al ₂ O ₃		1.67			1.38		
	SiO ₂		10.21			12.70		
	P ₂ O ₅		0.06			0.07		
	SO ₃		0.40			0.35		
	K ₂ O		0.49			0.45		
	CaO		44.57			44.44		
	TiO ₂		0.06			0.05		
	Mn ₃ O ₄		0.04			0.03		
	Fe ₂ O ₃		0.57			0.49		
	BaO		0.14			<0.01		
	Loss on Ignition		38.8			37.4		

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Mathew Sayer - Aggregate Team Manager