

Aggregate Properties – Devonian Limestone

Data Sheet

Source of Supply

E & J W Glendinning Ltd,
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Ashburton, Newton Abbot,
Devon. TQ13 7ES
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Typical Physical & Mechanical Properties

Rock Type / Classification

Devonian Limestone

Property	Test Ref	Typical Value
Aggregate Gradings	EN 933-1	EN 12620, EN 13043, SHW
Fines	EN 933-1	EN 12620, EN 13043, SHW
Particle Density – Apparent	EN 1097-6	2.74
Particle Density – SSD	EN 1097-6	2.71
Particle Density – Oven Dried	EN 1097-6	2.67
Water Absorption	EN 1097-6	1.0%
Loose Bulk Density	EN 1097-3	1.4 Mg/m ³ (4/10mm)
Flakiness Index (FI)	EN 933-3	15 for 4/10 & 10/20mm
Los Angeles Coefficient (LA)	EN 1097-2	25
Micro-Deval (M _{DE})	EN 1097-1	26
Aggregate Abrasion Value (AAV)	EN 1097-8	8.9
Polished Stone Value (PSV)	EN 1097-8	40 (Effective PSV <40)
Magnesium Sulfate Soundness (MS)	EN 1367-2	15
Water Soluble Chloride	EN 1744-1	<0.001%
Water Soluble Sulfate as SO ₃	EN 1744-1 Cl. 10.1	<0.01%
Water Soluble Sulfate as SO ₄	EN 1744-1 Cl. 10.1	<0.01%
Water Soluble Sulfate (WS) as SO ₄	TRL 447 Test 1	50.0 mg/l
Oxidisable Sulfides (OS) as SO ₄	TRL 447 Test 2 & 4	0.06%
Total Sulfur (TS) as S	EN 1744-1 Cl. 11	<0.1%

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Chemical Analysis

Silica (SiO ₂)	2.31%
Aluminium Oxide (Al ₂ O ₃)	0.74%
Iron Oxide (Fe ₂ O ₃)	0.38%
Potassium Oxide (K ₂ O)	0.13%
Sodium Oxide (Na ₂ O)	0.05%
Magnesium Oxide (MgO)	2.61%
Titanium Oxide (TiO ₂)	0.04%
Calcium Oxide (CaO)	50.73%
Manganese Oxide (Mn ₃ O ₄)	0.35%
Loss on Ignition	42.4%
pH Value	8.7

Form DQ7
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