

Aggregate Information

Material Safety Datasheet: DQ7 Issue 01/09



Glendinning

Source of Supply

Company: E & JW Glendinning Limited
Linhay Hill Quarry
Ashburton
Newton Abbot
TQ13 7ES
Tel: 01364 65260
Fax: 01364 652978

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Classification

Petrological Term	Devonian Limestone, dark to mid grey with calcite (white) and dolomite (red/brown) occurring as a vein material and replacement texture within the limestone
Particle Shape	Angular to Irregular
Surface Texture	Rough, fracture of fine grained rock

Typical Physical & Mechanical Properties

Gradings	To EN 12620, EN 13043, EN 13242 and Specification for Highway Works (SHW)
Flakiness Index (EN 933-3)	Range from 10 for 40mm aggregate to 25 for 10mm
Particle Density	2.72 (SSD)
Water Absorption	1.20% max
10% Fines Value	160kN (Dry), 140kN (Soaked)
Aggregate Crushing Value	22%
Aggregate Impact Value	21
Aggregate Abrasion Value	10.6
Los Angeles Coefficient	23 (LA25)
Polished Stone Value	40 (Effective PSV <40)

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Typical Chemical Analysis (Dry Stone)

Calcium Oxide CaO	49.93%
Magnesium Oxide MgO	3.28%
Silica SiO ₂	1.10%
Alumina Al ₂ O ₃	0.56%
Iron Oxide Fe ₂ O ₃	0.37%
Loss on Ignition	43.00%
Trace minerals	1.76%

Typical Chemical Properties

Magnesium Sulphate Soundness Value	95%
Water Soluble Chlorides	<0.01%
Sulphate Content (2:1 Water/Aggregate Extract)	0.018g/l
Total Sulphate Content (Acid Extraction)	0.09%
Neutralising Value as CaO	53%

Major Component of the Aggregate

Components forming more than 5%	Calcite Limestone (Calcium Carbonate CaCO ₃) forming 96% of mineral
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