

# Aggregate Properties – Sandstone / Gritstone

## Data Sheet

### Source of Supply

E & J W Glendinning Ltd,  
Pigsdon Quarry,  
Launcells, Bude, Cornwall. EX23 9LQ  
Tel: 01288 321538 or 01364 652601  
www.ejwglendinning.co.uk

### Typical Physical & Mechanical Properties – Aggregates for Bituminous Mixtures

#### Rock Type / Classification

Sandstone / Gritstone

Property	Test Ref	Typical Value
Aggregate Grading	EN 933-1	EN 13043 (PD 6682-2)
Fines	EN 933-1	EN 13043 (PD 6682-2)
Particle Density – Apparent	EN 1097-6	2.69
Particle Density – SSD	EN 1097-6	2.57
Particle Density – Oven Dried	EN 1097-6	2.50
Water Absorption	EN 1097-6	2.8%
Loose Bulk Density	EN 1097-3	1.35 Mg/m <sup>3</sup> (4/10mm)
Flakiness Index (FI)	EN 933-3	10 to 25
Shape Index (SI)	EN 933-4	15
Los Angeles Coefficient (LA)	EN 1097-2	25
Micro-Deval (M <sub>DE</sub> )	EN 1097-1	35
Aggregate Abrasion Value (AAV)	EN 1097-8	15
Polished Stone Value (PSV)	EN 1097-8	68
Magnesium Sulfate Soundness (MS)	EN 1367-2	25
Water Soluble Sulphate as SO <sub>3</sub>	EN 1744-1	<0.01%
Acid Soluble Sulphate as SO <sub>3</sub>	EN 1744-1	0.01%
Total Sulfur Content as S	EN 1744-1	0.01%

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### Chemical Analysis

Silica (SiO <sub>2</sub> )	73.89%
Aluminium Oxide (Al <sub>2</sub> O <sub>3</sub> )	12.02%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	4.84%
Potassium Oxide (K <sub>2</sub> O)	1.87%
Sodium Oxide (Na <sub>2</sub> O)	0.88%
Magnesium Oxide (MgO)	0.96%
Titanium Oxide (TiO <sub>2</sub> )	0.81%
Calcium Oxide (CaO)	0.25%
Manganese Oxide (Mn <sub>3</sub> O <sub>4</sub> )	0.04%
Loss on Ignition	4.2%
pH Value	7.3

Form DQ2  
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