



Product Data Sheet - Cornish Granite 10mm and 0-3mm

Source - Chywoon Quarry, Cornwall

Rock Type - Granite

Colour - Black and Silver

Applications - Pre-cast concrete, Architectural Concrete, Landscaping.

Typical Physical and Mechanical Properties

Property	Test Ref	Typical Value
Particle Density - Apparent	EN1097-6	2.66Mg/m ³
Particle Density - SSD	EN1097-6	2.61Mg/m ³
Particle Density - Oven Dried	EN1097-6	2.58Mg/m ³
Water Absorbtion	EN1097-6	1.2%
Loose Bulk Density	EN1097-3	1.40Mg/m ³
Los Angeles Coefficient	EN1097-2	44
Micro-Deval (MDE)	EN1097-1	15
Aggregate Abrasion Value (AAV)	EN1097-8	4.2
Polished Stone Value (PSV)	EN1097-8	54
Magnesium Sulphate Soundness	EN1367-2	4
Acid Soluble Sulphate Content as SO ₃	EN1744-1	0.01%
Chloride Content	EN1744-1	<0.01%
10% Fines (SSD)	BS812:Pt111	130kN
Chloride Ion Content	EN1744-1	0.003%

Chemical Analysis

Silica (SiO ₂)	69.34%
Titanium (TiO ₂)	0.25%
Aluminium Oxide (Al ₂ O ₃)	16.72%
Iron Oxide (Fe ₂ O ₃)	1.75%
Manganese Oxide (MnO)	0.05%
Magnesium Oxide (MgO)	0.45%
Calcium Oxide (CaO)	0.86%
Sodium Oxide (Na ₂ O)	2.85%
Potassium Oxide (K ₂ O)	5.99%
Phosphorus (P ₂ O ₅)	0.48%
Loss on Ignition	1.1%

10mm granite chippings.

Sieve	% Ret	% Pass
14	0	100
10	18.90	81.1
6.3	68.1	13
4	10.1	2.9

0-3mm granite sand

Sieve	% Ret	% Pass
4	0.8	99.2
2	12.7	86.5
1	27.4	59.1
0.50	21.7	37.4
0.25	16.7	20.7
0.125	11.0	9.7
0.063	6.6	3.1