

LAVA Natural Pozzolana



HERACLES
GROUP OF COMPANIES



A MEMBER OF
HOLCIM GROUP

Description

Beige granules or stones of natural pozzolanic siliceous and aluminous material of various sizes, mainly <70mm produced in Milos Quarry.

Typical Characteristics

Chemical Analysis (%)	Physical properties
SiO ₂ : 50-70	Moisture (% on wet basis) : 10-24
Al ₂ O ₃ : 10-14	Bulk Density, Loose (kg/m ³) : 1,100
Fe ₂ O ₃ : 2-5	Compressive Strength with Ca(OH) ₂ (MPa) ^(1,3) : 6-8
CaO : 2-10	Strength Activity Index at 28d (%) ^(2,3) : 82-86
MgO : 1-5	
SO ₃ : <0.1	
K ₂ O : 1-3	
Na ₂ O : 1-3	
Cl : <0.01	
LOI (Loss on Ignition) : 5-16	
Insoluble Residue : 65-85	
Reactive Silica : >40	

⁽¹⁾ ASTM C593

⁽²⁾ ASTM C311, ASTM C595

⁽³⁾ Fineness of pozzolan in test mixtures R45μm=12%

Granulometry	Mineralogical composition (%)
0 – 70 mm	Quartz : <1
	Cristobalite : <2
	Feldspars : 5-20
	Montmorillonite : 20-40
	Dolomite : 5-15
	Amorphous : 40-60

Recommended Applications

- cement, mortar and concrete production

Disclaimer: This TDS contains average values of number of tests taken under laboratory conditions and is indicative only. Minor variations which do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this TDS and the user has sole responsibility for verifying its suitability for the intended application.