



0615

0/8

LAVA MINING AND QUARRYING S.A.

32, D. Solomou str., GR14123 - Lykovrisi Attica Greece

05

0615-CPR-9981

DoP No: DOP/0-8/23-05-2024**Issue Date: 23-05-2024****EN 13055-1****PUMICE****(0/8mm)**

Loose bulk density (dry) (Mg/m ³)	0.80 (Min/Max: 0.70/0.90)		EN 1097-3	
Loose bulk density (wet) (Mg/m ³)	0.84 (Min/Max: 0.74/0.94)			
Apparent Particle density ρ_{La} (Mg/m ³)	0/4 fraction	4/8 fraction	EN 1097-6 annex C	
	1.95±0,15	1.90±0,15		
Oven dry Particle density ρ_{Lrd} (Mg/m ³)	0/4 fraction	4/8 fraction		
	1.75±0,15	1.17±0,15		
Grading (%)	Sieve (mm)	Passing (%)	EN 933-1 ⁽²⁾ :	
	8	99		95-100
	4	78		68-88
	2	54		44-64
	1	38		30-46
	0.5	27		20-34
	0.25	20		15-25
0.125	15	10-20		
Fines (%)	≤15%		EN 933-1 ⁽²⁾ :	
Water absorption WA ₂₄ (%)	0/4 fraction 8±4	4/8 fraction 30±10	EN 1097-6 annex C	
Water content	19-33%		EN 1097-5 (on dry mass)	
	16-26%		EN 1097-5 (on wet mass)	
Crushing resistance (N/mm ²)	4 N/mm ²		EN 13055-1, annex A	
Percentage of crushed particles (%)	NPD ⁽¹⁾		EN 933-5	
Resistance to disintegration (%)	NPD ⁽¹⁾		EN 13055-1 annex B	
Freezing and thawing resistance (%)	max 3.7%		EN 13055-1 annex C	
Chloride (%)	<0.10%		EN 1744-1 clause 7	
Acid soluble sulfate (%)	< 0.10%		EN 1744-1 clause 12	
Total sulfur (%)	< 0.10%		EN 1744-1 clause 11	
Organic contaminators (%)	No harmful contaminators		EN 1744-1 15.1, 15.2	
Alkali – silica reactivity	Non reactive		ASTM C289, XP-P18594	
Dangerous substances. In particular:				
Emission of radioactivity	Radiologically suitable for safe use		Radiation Protection 112, European Commission 1999	
Release of heavy metals	As <4ppm, Cd <0.4ppm, Cr <20 ppm, Cu <5ppm, Hg <0.05ppm, Pb <13ppm, Ni <6 ppm, Zn <20 ppm		In accordance with NEN 6950 (destruction in accordance with NEN 6961, measurement in accordance with NEN 6966); In house method (destruction in accordance with NEN 6961 and equivalent to NEN-EN 16174, measurement with ISO 22036 and in accordance with NEN-EN 16170)	
Release of polyaromatic carbons	Organic carbon is not present in pumice		ISO 10694	

⁽¹⁾ No Performance Determined, ⁽²⁾: dry sieving