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LAVA MINING AND QUARRYING S.A.

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

05

0615-CPR-9981

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EN 13055-1

PUMICE

(0/16mm)

Loose bulk density (wet) (Mg/m ³)	0,770 (Min/Max: 0,670/0,870)	EN 1097-3												
Apparent Particle density ρ_{La} (Mg/m ³)	1.75±0.15	EN 1097-6:, annex C												
Oven dry Particle density ρ_{Lrd} (Mg/m ³)	1.00±0.15													
Grading (%)	<table border="1"> <thead> <tr> <th>Sieve (mm)</th> <th>Passing (%)</th> <th>Range (%)</th> </tr> </thead> <tbody> <tr> <td>12.5</td> <td>95</td> <td>90-100</td> </tr> <tr> <td>8</td> <td>37</td> <td>27-47</td> </tr> <tr> <td>4</td> <td>18</td> <td>10-26</td> </tr> </tbody> </table>	Sieve (mm)	Passing (%)	Range (%)	12.5	95	90-100	8	37	27-47	4	18	10-26	EN 933-1 ⁽²⁾
Sieve (mm)	Passing (%)	Range (%)												
12.5	95	90-100												
8	37	27-47												
4	18	10-26												
Fines (%)	<10%	EN 933-1 ⁽²⁾												
Water absorption (%)	36±10%	EN 1097-6: annex C												
Water content	16-26%	EN 1097-5(calc upon wet mass)												
Crushing resistance (N/mm ²)	NPD ⁽¹⁾	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