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2/10

**LAVA MINING AND QUARRYING S.A.**

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05

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**EN 13055-1****PUMICE****(2/10mm)**

Loose bulk density (dry) (Mg/m <sup>3</sup> )	0.61 (0.51-0.71)			EN 1097-3
Loose bulk density (wet) (Mg/m <sup>3</sup> )	0.75 (Min/Max: 0.65/0.85)			
Apparent Particle density $\rho_{La}$ (Mg/m <sup>3</sup> )	1.76±0.15			EN 1097-6:, annex C
Oven dry Particle density $\rho_{Lrd}$ (Mg/m <sup>3</sup> )	1.14±0.15			
Grading (%)	Sieve (mm)	Passing (%)	Range (%)	EN 933-1 <sup>(2)</sup>
	10	99	95-100	
	8	88	80-96	
	6.3	60	48-72	
	4	33	22-44	
	3.15	18	11-25	
	2	14	9-19	
Fines (%)	≤10%			EN 933-1 <sup>(2)</sup>
Water absorption (%)	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 <sup>2</sup> )	4 N/mm <sup>2</sup>			EN 13055-1, annex A
Percentage of crushed particles (%)	NPD <sup>(1)</sup>			EN 933-5
Resistance to disintegration (%)	NPD <sup>(1)</sup>			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

<sup>(1)</sup> No Performance Determined, <sup>(2)</sup>: dry sieving