



0615

0/3

LAVA MINING AND QUARRYING S.A.

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

05

0615-CPR-9981

DoP No: DOP/0-3/23-05-2024

Issue Date: 23-05-2024

EN 13055-1

PUMICE

(0/3mm)

Loose bulk density (dry) (Mg/m³)

0.78 (Min/Max: 0.68/0.88)

EN 1097-3

Loose bulk density (wet) (Mg/m³)

0.84 (Min/Max: 0.74/0.94)

Apparent Particle density ρ_{La} (Mg/m³)

2.05±0,15

EN 1097-6 annex C

Oven dry Particle density ρ_{Lrd} (Mg/m³)

1.85±0,15

Grading (%)

Sieve (mm)	Passing (%)	Range (%)
3.15	99	95-100
2	86	78-92
1	60	53-67
0.5	40	32-48
0.25	23	15-31
0.125	17	10-24

EN 933-1⁽³⁾

Fines (%)

≤15%

EN 933-1⁽³⁾

Water absorption (%)

Max 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/mm²)N/A⁽¹⁾

EN 13055-1, annex A

Percentage of crushed particles (%)

N/A⁽¹⁾

EN 933-5

Resistance to disintegration (%)

N/A⁽¹⁾

EN 13055-1, annex B

Freezing and thawing resistance (%)

N/A⁽¹⁾

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 ppmIn 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⁾Not Applicable, ⁽²⁾ No Performance Determined, ⁽³⁾: dry sieving