



0615

0/16  
Landfill

LAVA MINING AND QUARRYING S.A.

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

05

0615-CPR-9984

DoP No: DOP/0-16 Landfill  
/23-05-2024

Issue Date: 23-05-2024

EN 13055-2  
PUMICE  
(0/16mm Landfill)

Loose bulk density (wet) (Mg/m <sup>3</sup> )	0,780 (Min/Max:0,680/0,880)	EN 1097-3												
Apparent Particle density $\rho_{La}$ (Mg/m <sup>3</sup> )	1.65±0.15	EN 1097-6:, annex C												
Oven dry Particle density $\rho_{Lrd}$ (Mg/m <sup>3</sup> )	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>98</td> <td>95-100</td> </tr> <tr> <td>8</td> <td>45</td> <td>35-55</td> </tr> <tr> <td>4</td> <td>20</td> <td>10-30</td> </tr> </tbody> </table>	Sieve (mm)	Passing (%)	Range (%)	12.5	98	95-100	8	45	35-55	4	20	10-30	EN 933-1 <sup>(3)</sup>
Sieve (mm)	Passing (%)	Range (%)												
12.5	98	95-100												
8	45	35-55												
4	20	10-30												
Fines (%)	<10%	EN 933-1 <sup>(3)</sup>												
Water content	16-26%	EN 1097-5 (calc upon wet mass)												
Water absorption (%)	36±10%	EN 1097-6: annex C												
Bulk Crushing resistance (N/mm <sup>2</sup> )	NPD <sup>(1)</sup>	EN 13055-1, annex A												
Percentage of crushed particles (%)	NPD <sup>(2)</sup>	EN 933-5												
Resistance to disintegration (%)	NPD <sup>(2)</sup>	EN 13055-1:, annex B												
Freezing and thawing resistance (%)	max 3.7%	EN 13055-2 annex B												
Water Suction height	NPD <sup>(2)</sup>	EN 1097-10												
Compaction and load bearing capacity	NPD <sup>(2)</sup>	EN 13055-2, annex A												
Resistance to cyclic compressive loading	NPD <sup>(2)</sup>	EN 13286-7												
Resistance to thermal shock	NPD <sup>(2)</sup>	EN 1367-5												
Resistance to polishing	NPD <sup>(2)</sup>	EN 1097-8												
Resistance to wear by abrasion from studded tyres	NPD <sup>(2)</sup>	EN 1097-9												
Compatibility between LWA and bitumen	N/A <sup>(1)</sup>	EN 12697-11												
Water Soluble Chloride (%)	<0.10%	EN 1744-1:, clause 7												
Water soluble sulphate (%)	<0.01%	EN 1744-1:, clause 10												
Thermal conductivity	N/A <sup>(1)</sup>	EN 12664 or EN 12667												
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>Not Applicable, <sup>(2)</sup> No Performance Determined, <sup>(3)</sup>: dry sieving