

STALITE Lightweight Aggregate
Physical Characteristics for Geotechnical Applications

Absorption	
Saturated Surface Dry (ASTM C 127)	6.0%
1 Hour Boil In Water	8.0%
Under high pumping pressure of 150 psi (1033 kPa)	9.4%
Soundness (% Loss)	
Magnesium Sulfate (ASTM C 88)	0 - 0.01%
Sodium Sulfate (ASTM C 88)	0 - 0.23%
25 Cycles Freezing and Thawing (AASHTO T 103)	0.22 - 0.80%
Toughness	
Los Angeles Abrasion (AASHTO T 96)	25 - 28%
Stability	
Angle of Internal Friction (Loose)	40° - 42°
Angle of Internal Friction (Compacted)	43° - 46°
Impurities	
Clay Lumps (ASTM C 142)	0
Organic Impurities (ASTM C 40)	0
Electrical Resistance	
Lab (AASHTO T 288)	30,000 - 40,000 ohm-cm
Field (ASTM G 57)	More than 500,000 ohm-cm
Aggregate Chemical Characteristics	
Ignition Loss (ASTM C 114)	0
Stains (ASTM C 641)	None
Sulfur Trioxide	Less Than 0.05 ppm
Chlorides (NaCl)	0.60 - 7.0 ppm
Soluble Salts	0.28 mmhos/cm
pH	7 - 9

Certified test reports available