



**STALITE Lightweight Aggregate**  
Physical Characteristics  
**STRUCTURAL APPLICATIONS**  
*Certified test reports available*

Absorption	Units	3/4"(19mm)	1/2"(12.5mm)	3/8" (9.5mm)
24 Hour Soak (ASTM C127)	%	6.0	7.1	7.3
72 Hour Soak (ASTM C127)	%	6.0	7.8	7.9
Under High Pumping Pressure of 150 PSI (1033kPA)	%	9.4	-	-

Soundness (% Loss)				
Magnesium Sulfate (ASTM C88)	%	0-0.01		
Saturated Surface Dry	%	0-0.23		
25 Cycles Freezing and Thawing (AASHTO T103)	%	0.00-0.80		

Toughness				
Los Angeles Abrasion (AASHTO T96)	%	25-28		

Stability				
Angle of Internal Friction (Loose)	°	40-42		
Angel of Internal Friction (Compacted)	°	43-46		

Impurities				
Clay Lumps (ASTM C142)	%	0		
Organic Impurities (ASTM C151)	%	0		
Pop-outs (ASTM C151)	%	0		

Electrical Resistance				
Lab (AASHTO T288)	ohm-cm	30,000-40,000		
Field (ASTM G57)	ohm-cm	More than 500,000		

Aggregate Chemical Characteristics				
Ignition Loss (ASTM C114)		0		
Stain (ASTM C641)		None		
Sulfur Trioxide	ppm	Less Than 0.05		
Chlorides (NaCl)	ppm	0.60-7.0		
Soluble Salts	mmhos/cm	0.28		
pH		7-9		