

PROPERTIES & GRADATIONS

STALITE Lightweight Aggregate

STRUCTURAL MATERIAL APPLICATIONS *Certified test reports available*

	3/4" (19mm)		1/2" (12.5mm)		3/8" (9.5mm)		Washed MS16 Fines (#4-0) (4.75mm-0)	
Typical Density (unit weight)	lbs/cf	kg/m³	lbs/cf	kg/m³	lbs/cf	kg/m³	lbs/cf	kg/m³
Dry Loose (ASTM C29)	48	768	50	800	52	832	60	960
Dry Rodded (ASTM C29)	55	880	56	896	58	928	65	1040
Saturated Surface Dry Loose (ASTM C29)	50	800	52	832	58	848	55	880
Maximum Dry Density (ASTM D4253)	60	960						
Damp Loose (ASTM C29)	48 - 52	768 - 832	50 - 54	800 - 864	51 - 55	816 - 880	53 - 57	848 - 917
Typical Relative Density (Specific Gravity)								
Dry (ASTM C127)	1.46		1.47		1.54		1.69	
Saturated Surface Dry (ASTM C127)	1.52		1.53		1.60		1.80	
Range in Saturated Surface Dry (ASTM C127)	1.47 - 1.54		1.49 - 1.55		1.57 - 1.64		1.75 - 1.85	
Sieve Size	% Passing		% Passing		% Passing		% Passing	
1" (25mm)	100		100		100		100	
3/4" (19mm)	90 - 100		100		100		100	
1/2" (12.5mm)			90 - 100		100		100	
3/8" (9.5mm)	10 - 50		40 - 80		80 - 100		100	
#4 (4.75mm)	0 - 15		0 - 20		5 - 40		97 - 100	
#8 (2.36mm)			0 - 10		0 - 20		89 - 100	
#16 (1.18mm)							44 - 66	
#30 (600µm)							28 - 41	
#50 (300µm)							17 - 25	
#100 (150µm)							8 - 16	

STALITE Lightweight Aggregate

STRUCTURAL FINES APPLICATIONS

	Tank D	Tank G	Tank U	MS16	MS16 (washed)
Typical Density (unit weight)	lbs/cf	lbs/cf	lbs/cf	lbs/cf	lbs/cf
Damp Loose (ASTM C29)	53 - 57	53 - 57	53 - 57	53 - 57	53 - 57
kg/m3	850 - 910	850 - 910	850 - 910	850 - 910	850 - 910
Sieve Size	% Retained	% Retained	% Retained	% Retained	% Retained
#4 (4.75mm)	3 - 9	20 - 27	0 - 5	0 - 3	0 - 3
#8 (2.36mm)	25 - 41	47 - 63	2.5 - 35.5	0 - 11	0 - 11
#16 (1.18mm)	45 - 61	64 - 78	5 - 60	34 - 54	34 - 56
#30 (600µm)	62 - 77	75 - 85	32.5 - 75	59 - 72	59 - 72
#50 (300µm)	73 - 85	82 - 90	60 - 90	75 - 83	75 - 83
#100 (150µm)	81 - 91	87 - 95	85 - 95	84 - 92	84 - 92
Fineness Modulus					
F.M.	2.89 - 3.64	3.75 - 4.40	1.85 - 3.58	2.52 - 3.15	N/A