

STALITE Lightweight Aggregate
Properties and Gradations for Structural Applications

	3/4" (18mm)		1/2" (12.5mm)		3/8" (9.5mm)		Fines (#4 - 0)	
Typical Density (Unit Weight)	lbs/cf	kg/m ³	lbs/cf	kg/m ³	lbs/cf	kg/m ³	lbs/cf	kg/m ³
Dry Loose (ASTM C 29)	48	768	50	800	52	832	60	960
Dry Rodded (ASTM C 29)	55	880	56	896	58	928	65	1040
Saturated Surface Dry Loose (ASTM C 29)	50	800	52	832	53	848	55	880
Maximum Dry Density (ASTM D 4253)	60	960	-		-		-	
Damp Loose (ASTM C 29)	48 - 52	768-832	50 - 54	800-864	51 - 55	816-880	53 - 57	848-912
Typical Relative Density (Specific Gravity)								
Dry (ASTM C 127)	1.46		1.47		1.54		1.69	
Saturated Surface Dry (ASTM C 127)	1.52		1.53		1.60		1.75	
Range in Saturated Surface Dry (ASTM C 127)	1.47 - 1.54		1.49 - 1.55		1.57 - 1.64		1.70 - 1.80	
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		91-96	
#8 (2.36mm)	-		0-10		0-20		59-75	
#16 (1.18mm)	-		-		0-10		39-55	
#30 (600um)	-		-		-		23-38	
#50 (300um)	-		-		-		15-27	
#100 (150um)	-		-		-		9-19	