



Properties & Gradations
GEOTECHNICAL APPLICATIONS

Typical Density-(Unit Weight)	3/4" (19mm)		Fines (#4-0) (4.75mm-0)	
	lbs/cf	kg/m ³	lbs/cf	kg/m ³
Dry Loose (ASTM C29)	48	768	55	880
Dry Rodded (ASTM C29)	55	880	60	960
Saturated Surface Dry Loose (ASTM C29)	50	800	55	880
Maximum Dry Density (ASTM D4253)	60	960	65	1040
Damp Loose (ASTM C29)	48-52	768-832	53-57	850-910
Typical Relative Density (Specific Gravity)				
Dry (ASTM C127)	1.45		1.65	
Saturated Surface Dry (ASTM C127)	1.50		1.80	
Range in Saturated Surface Dry (ASTM C127)	1.47-1.54		1.75-1.85	
Sieve Size	% Passing		% Passing	
1" (25mm)	100		-	
3/4" (19mm)	90-100		-	
1/2" (12.5mm)	-		-	
3/8" (9.5mm)	10-50		-	
#4 (4.75mm)	0-15		90-100	
#8 (2.36mm)	-		50-70	
#16 (1.18mm)	-		25-40	
#30 (600µm)	-		10-25	
#50 (300µm)	-		5-15	
#100 (150µm)	-		0-5	
#200	-		0-3	
F.M.	-		2.89-3.64	