



PERLITE

Typical Physical Properties

Structure..... Expanded Perlite	Specific Gravity2.3
Color..... Off-White	Refractive Index1.5
G.E. Brightness76	Free Moisture (Max % H ₂ O)0.5
pH (10% slurry)7.0	(Typical % H ₂ O)0.2

CP Grade	1200P	1200R	1400P	1400R	2000P	200R	4000P	4000R	5000P	5000R	6000P	6000R
Sieve Analysis ¹ % + 150 Mesh (>105 microns)	15	25	20	30	25	35	30	40	35	45	40	50
Median Particle Diameter (microns)	32	45	37	50	48	58	55	62	60	66	66	70
Permeability ² (darcy)	0.08	0.08	1.2	1.2	2.1	2.1	2.6	2.6	3	3	3.5	3.5
Density (lbs/ft ³) Wet Bulk	12	13	12	13	11	12	11	12	9	10	9	10
Dry Bulk	5.5	6	5.5	6	5.5	6	5	5.5	5	5.5	4.5	5.5
Density (g/l) Wet Bulk	190	210	190	210	175	190	175	190	145	160	145	160
Dry Bulk	90	95	90	95	90	95	80	90	80	90	70	90

1 = w/Tyler Screen

2= Determined with Vel Penneameter

Typical Chemical Analysis

SiO ₂75.80%	CaO..... 1.00%
Al ₂ O ₃13.10%	Other Oxides..... 0.09%
K ₂ O..... 4.40%	Loss on Ignition..... 0.08%
Na ₂ O..... 4.10%	