

PERLITE

TYPICAL SCREEN ANALYSIS % BY VOLUME (NOT CUMMULATIVE)

Coarse Perlite

8 MESH	50-70%
16	15-25%
30	10-20%
50	0-5%
100	0-5%
PAN	T-5%

Medium Perlite

8 MESH	1-5%
16	20-40%
20	20-40%
50	25-55%
100	2-10%
PAN	T-10%

Super Coarse Perlite

4 MESH	50-70%
8	30-40%
16	3-10%
30	0%
50	0%
100	T-10%
Pan	2-10%

Typical Elemental Analysis

Silicon.....	33.8
Aluminum.....	7.2
Potassium.....	3.5
Sodium.....	3.4
Iron.....	0.6
Calcium.....	0.6
Magnesium.....	0.2
Trace.....	0.2
Oxygen (by difference).....	47.5
Net Total.....	97.0
Bound Water.....	3.0
Total.....	100.0

*All analyses are shown in elemental form even though the actual forms present are mixed glassy silicates. Free silica may be present in small amounts, characteristic of the particular ore body. More specific information may be obtained from the ore supplier involved.

Typical Physical Properties

Color.....	White
Refractive Index.....	1.5
Free Moisture, Maximum.....	0.5%
pH (of water slurry).....	6.5-8.0
Specific Gravity.....	2.2-2.4
Bulk Density (loose weight).....	As desired, but usually in the 2-25 lb/ft ³ range(32-400 kg/m ³)
Mesh Size Available.....	As desired, 4-8 mesh and finer
Softening Point.....	1600-2000°F (871-1093°C)
Fusion Point.....	2300-2450°F (1260-1343°C)
Specific Heat.....	0.2 Btu/lb*°F (837 J/kg*K)
Thermal Conductivity at 75°F (24°C).....	.27-.41 Btu-in/h-ft ² *°F(.04-.06 W/m*K)
Solubility.....	Soluble in hot concentrated alkali and HF Moderately soluble (< 10%) in 1N NaOH Slightly soluble (< 3%) in mineral acids (1N) Very slightly soluble (< 1%) in water or weak acids