

SILVAPERL PERLITE P10_B

NON-COMBUSTIBLE ULTRA-LIGHTWEIGHT MINERAL AGGREGATE
WITH EXCELLENT INSULATION & ADSORPTION PROPERTIES

CHEMICAL PROPERTIES

Perlite is an aluminosilicate glass.

TYPICAL CHEMICAL COMPOSITION:

Silicon as SiO ₂	73%
Aluminium as Al ₂ O ₃	15%
Iron as Fe ₂ O ₃	2%
Sodium as Na ₂ O	3%
Potassium as K ₂ O	5%
Calcium as CaO + Magnesium as MgO	1%
Others	1%
Organic Matter	nil
Moisture Content (when packed)	less than 0.8%

PHYSICAL PROPERTIES:

Refractive Index	1.5
Free Moisture (max)	< 0.50%
pH of Water Slurry	6.5 - 7.5
Softening Point	890 – 1100 °C
Fusion Point	1280 – 1350 °C
Specific Heat	837 J kg ⁻¹ K ⁻¹
Thermal Conductivity (loose poured)	0.05 W m ⁻¹ K ⁻¹
Bulk Density (loose poured)	80 - 100 kg m ⁻³

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)	CUMULATIVE RETAINED (%)
3.350	100	0 - Trace
2.360	60-100	0 -10
1.700	50-90	0 - 20
1.180	40-80	5 - 40
0.600	40-60	30 - 70
0.300	20-30	60 - 100

APPLICATIONS

- Paint, grout and general fillers
- Textured coatings
- Lightweight plasters and renders
- Animal and poultry feeds
- Anti-caking additive
- Drying agent
- Refractory applications
- Fireproofing compounds
- Artificial stone



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