

SILVAPERL PERLITE

SILVAPOR

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	110-130 kg m ⁻³

Silvapor is white with a nominal particle size of 0.15 – 5mm

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)
4.750	90 - 100
2.360	50-80
1.180	20-50
0.600	10-30
0.300	5-20

APPLICATIONS

- Hydrophobic insulation aggregate made from coated expanded perlite.
- Improves the thermal performance of masonry walls and floors
- Particularly suitable for the use in external cavity walls

BENEFITS

- Water repellent
- Non flammable
- Free flowing
- Rot proof
- Vermin resistant



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