

# 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 <sub>2</sub>	73%
Aluminium as Al <sub>2</sub> O <sub>3</sub>	15%
Iron as Fe <sub>2</sub> O <sub>3</sub>	2%
Sodium as Na <sub>2</sub> O	3%
Potassium as K <sub>2</sub> 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 <sup>-1</sup> K <sup>-1</sup>
Thermal Conductivity (loose poured)	0.05 W m <sup>-1</sup> K <sup>-1</sup>
Bulk Density (loose poured)	110-130 kg m <sup>-3</sup>

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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