

SILVAPERL PERLITE P3LW

CRYOGENIC

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:

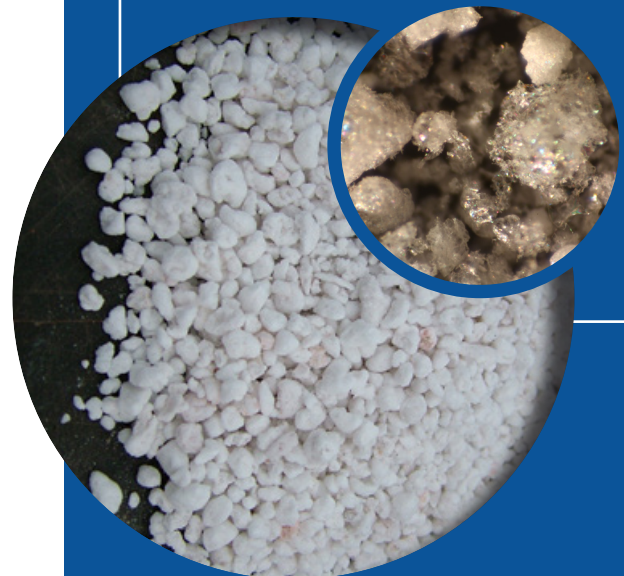
Refractive Index	1.5
Free Moisture (max)	< 0.50%
pH of Water Slurry	6.5 - 7.5
Softening Point	890 – 1100 °C
Fusion Point	1280 – 1350 °C
Specific Heat	837 J kg ⁻¹ K ⁻¹
Thermal Conductivity (loose poured)	0.05 W m ⁻¹ K ⁻¹
Bulk Density (loose poured)	35 - 55 kg m ⁻³

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)
1.180	90 - 100
0.600	70 - 90
0.300	35 - 55
0.150	10 - 30
0.075	0 - 10

APPLICATIONS

- Low temperature cryogenic storage
- Super chill insulation for fractional distillation of gases such as Argon, Nitrogen, Helium and Oxygen
- Processing of Liquefied Natural Gas (LNG)
- Insulation of storage tanks or cold boxes
- Paints, grouts and general fillers
- Textured coatings



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