

SILVAPERL PERLITE P45 SUPERCOURSE

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 | 90 - 120 kg m ⁻³ |

TYPICAL GRADING

| SIEVE SIZE (MM) | WEIGHT PASSING (%) |
|-----------------|--------------------|
| 4.750 | 85 - 100 |
| 3.350 | 50 - 75 |
| 2.360 | 10 - 45 |
| 1.700 | 5 - 30 |

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
- Chimney lining



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