

SILVAPERL PERLITE

PO

MICRONISED

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:

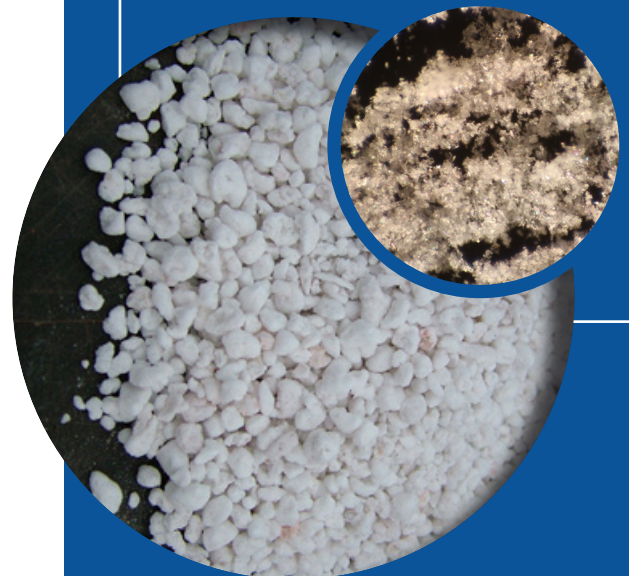
Refractive Index	1.5
Free Moisture (max)	< 0.50%
pH of Water Slurry	6.5 - 7.5
Softening Point	890 – 1100 °C
Fusion Point	1280 – 1350 °C
Specific Heat	837 J kg ⁻¹ K ⁻¹
Thermal Conductivity (loose poured)	0.05 W m ⁻¹ K ⁻¹
Bulk Density	65 - 95 kg m ⁻³

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)
0.300	95 - 100
0.150	90 - 100
0.075	70 - 90
0.045	45 - 65

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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SILVAPERL PERLITE P05 MICRONISED

NON-COMBUSTIBLE ULTRA-LIGHTWEIGHT MINERAL AGGREGATE
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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:

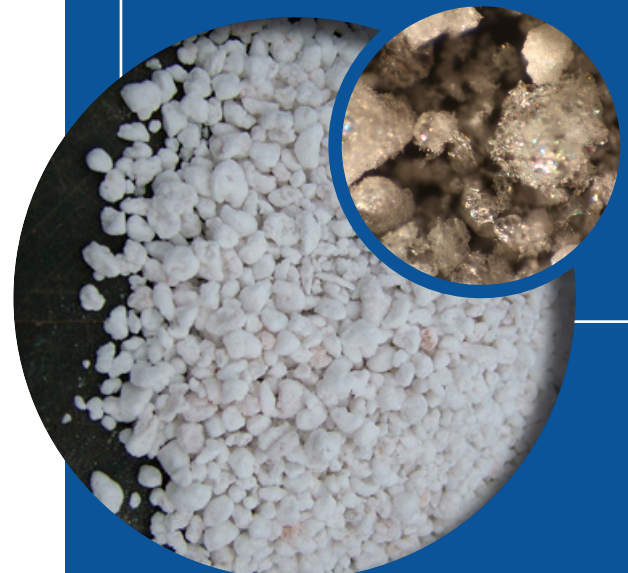
Refractive Index	1.5
Free Moisture (max)	< 0.50%
pH of Water Slurry	6.5 - 7.5
Softening Point	890 – 1100 °C
Fusion Point	1280 – 1350 °C
Specific Heat	837 J kg ⁻¹ K ⁻¹
Thermal Conductivity (loose poured)	0.05 W m ⁻¹ K ⁻¹
Bulk Density	150 - 190 kg m ⁻³

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)
0.300	95 - 100
0.150	75 - 95
0.075	45 - 65
0.045	20 - 35

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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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:

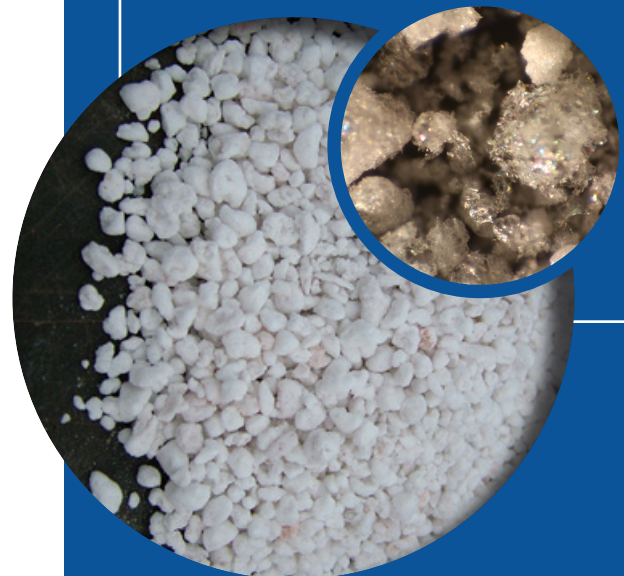
Refractive Index	1.5
Free Moisture (max)	< 0.50%
pH of Water Slurry	6.5 - 7.5
Softening Point	890 – 1100 °C
Fusion Point	1280 – 1350 °C
Specific Heat	837 J kg ⁻¹ K ⁻¹
Thermal Conductivity (loose poured)	0.05 W m ⁻¹ K ⁻¹
Bulk Density	35 - 55 kg m ⁻³

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



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SILVAPERL PERLITE P3HD

EXTRA FINE

**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:

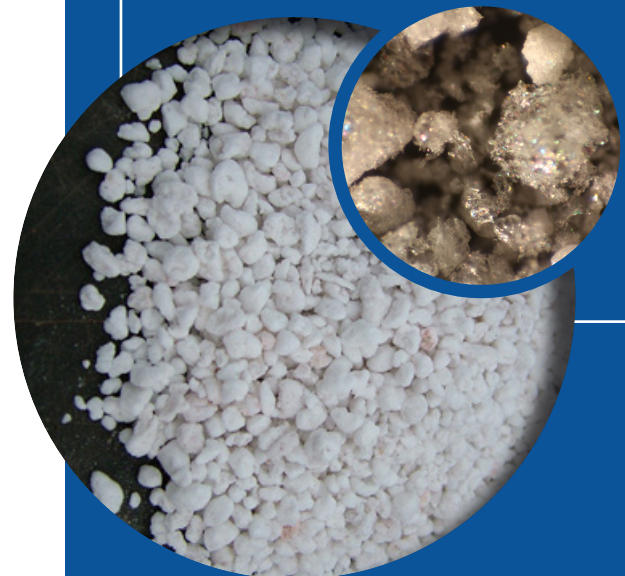
Refractive Index	1.5
Free Moisture (max)	< 0.50%
pH of Water Slurry	6.5 - 7.5
Softening Point	890 – 1100 °C
Fusion Point	1280 – 1350 °C
Specific Heat	837 J kg ⁻¹ K ⁻¹
Thermal Conductivity (loose poured)	0.05 W m ⁻¹ K ⁻¹
Bulk Density	55 - 85 kg m ⁻³

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

- 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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P6

EXTRA FINE

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	40 - 75 kg m ⁻³

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)
1.700	90 - 100
1.180	65 - 95
0.600	20 - 60
0.300	5 - 25
0.150	0 - 10
0.075	0 - 5

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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SILVAPERL PERLITE P10

SUPERFINE

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	80 - 110 kg m ⁻³

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)
2.360	95 - 100
1.700	90 - 100
1.180	85 - 100
0.600	55 - 80
0.300	25 - 50
0.150	0 - 25

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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SILVAPERL PERLITE P15

MEDIUM

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 - 130 kg m ⁻³

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)
2.360	85 - 100
1.700	65 - 90
1.180	50 - 75
0.600	25 - 50
0.300	0 - 25
0.150	0 - 10

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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SILVAPERL PERLITE P25

SPECIAL

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	50 - 75 kg m ⁻³

TYPICAL GRADING

SIEVE SIZE (MM)	WEIGHT PASSING (%)
2.360	70 - 100
1.700	25 - 55
1.180	0 - 10
0.600	0 - 5

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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SILVAPERL PERLITE P35

STANDARD

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
2.360	30 - 70
1.700	10 - 55
1.180	0 - 25
0.600	0 - 10

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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