

**GENERAL DESCRIPTION**

**PRODUCT:** Cryogenic Grade expanded perlite  
**DESCRIPTION:** Ultra-low density, fine-grained particles for insulating non-evacuated cryogenic and low-temperature service tanks.


**DRY SIEVE ANALYSIS**

US MESH	MICRONS	% RETAINED BY VOL. CUMULATIVE	% PASSING
No. 16	1,190	30% max.	70% min.
No. 100	150	50% min.	50% max.

**SUPPLEMENTARY INFORMATION**

**CHEMICAL NAME:** Sodium Potassium Aluminum Silicate  
**APPEARANCE:** White powder, odorless  
**LOOSE BULK DENSITY:** 2.5 — 4.0 lb/ft<sup>3</sup>  
**pH (OF WATER SLURRY):** Neutral  
**REFRACTIVE INDEX:** 1.5  
**HARDNESS (MOHS):** 5.5  
**FUSION POINT:** 2300 – 2450 °F  
**FLASH POINT:** Non-flammable

**SOLUBILITY:** Negligible in water and weak acids.\*

\* Soluble in hot concentrated alkali and HF; moderately (less than 10%) in 1N NaOH. Slightly (less than 3%) in mineral acid.

**SUPREME PERLITE** Cryogenic Grade expanded perlite consists of fine-grained particles that have been fully expanded to maximize the amount of entrapped air in each individual glass bubble, giving it the property of being highly insulative.

Cryogenic perlite is derived from naturally occurring volcanic glass which has been expanded at high temperature to achieve an ultra-low density “popped” aggregate. Perlite is 100% natural, inert, stable, pH-neutral, ultra-lightweight.

Mineral Content	%
SiO <sub>2</sub>	74.0
Al <sub>2</sub> O <sub>3</sub>	14.0
K <sub>2</sub> O	4.5
Na <sub>2</sub> O	3.6
CaO	0.9
Fe <sub>2</sub> O <sub>3</sub>	0.7
MgO	0.1

**PACKAGING OPTIONS**

- 4 cu. ft. (113 L) paper bags
- 60 cu. ft. super sacks (2.2 yd/1.7 m<sup>3</sup>)