

Hess Perlite Grade 130E

EXPANDED PARTICLE SIZE SPEC GRADE 130E

SIZE		ALLOWABLE PERCENT PASSING
MICRON	U.S. MESH	
1190	16	25-30
297	50	0-10

TEST METHOD: C29

EXPANDED LOOSE BULK DENSITY GRADE 130E

5-6 lbs/per cubic foot

CHEMICAL COMPOSITION AND PHYSICAL PROPERTIES

Chemical Name: Sodium Potassium Aluminum Silicate

TYPICAL ANALYSIS

- Silicon Dioxide: 76.5%
- Aluminum Oxide: 13.5%
- Potassium Oxide: 4.65%
- Sodium Oxide: 3.34%
- Iron Oxide: 1.18%
- Calcium Oxide: 0.89%
- Titanium Oxide: 0.8%
- Chlorine: 0.5%
- Barium Oxide: 0.18%
- Magnesium Oxide: 0.12%
- Bound Water: 3.0%

GENERAL PROPERTIES

- Appearance: White Granules, Odorless
- Refractive Index: 1.5
- Hardness (MOHS): 5.5
- pH: Neutral
- Fusion Point: 1260 degrees C (2300F)
- Flash Point: Non-flamable
- Specific Gravity: 2.33
- Solubility:
 - Negligible in water and weak acids
 - Soluble in hot concentrated alkali and HF
 - Moderately soluble (<10%) in 1N NaOH
 - Slightly soluble (<3%) in mineral acids (1N)
- Thermal Conductivity (at 75°F/24°C):
 - Conductivity: 0.3332 Btu·in/ft²·hr·°F
 - Resistivity (R-per-inch): 3.001 ft²·hr·°F/Btu·in

DESCRIPTION

Perlite ore is a glassy volcanic rock with a vitreous, pearly luster and a characteristic concentric or perlitic fracture. Closely related to pumice, it differs from other volcanic glasses principally in its combined water content, which produces the unusual characteristic of expanding, or “popping,” up to 20 times its original volume upon being exposed to rapid, controlled heating. Rapidly heating perlite ore to temperatures of about 900°C (1,700°F) softens the volcanic glass, causing entrapped water molecules in the rock to turn to steam and expand the particles like popcorn. The resulting expanded particles—actually clusters of minute glass bubbles—are spherical in shape, usually fluffy or frothy, highly porous due to a foam-like cellular internal structure, and have a very low density.

GRADE APPLICATIONS

Used for: horticultural applications, masonry fill & concrete applications, cryogenic applications.

PACKAGING OPTIONS

- Plastic Bags (4 cubic ft; palletted)
- Super sacks (55 cubic ft; palletted)
- Bulk shipped in pneumatic rail car or tractor trailer

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