Hess Perlite Grade 130E

EXPANDED PARTICLE SIZE SPEC GRADE 130E			
SIZE		ALLOWABLE	
MICRON	U.S. MESH	PERCENT PASSING	
1190	16	20-40	
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	GENERAL PROPERTIES	
• Silicon Dioxide: 76.5%	• Appearance: White Granules, Odorless	
Aluminum Oxide: 13.5%	Refractive Index: 1.5	
Potassium Oxide: 4.65%	• Hardness (MOHS): 5.5	
Sodium Oxide: 3.34%	• pH: Neutral	
Iron Oxide: 1.18%	• Fusion Point: 1260 degrees C (2300F)	
Calcium Oxide: 0.89%	Flash Point: Non-flamable	
Titanium Oxide: 0.8%	Specific Gravity: 2.33	
Chlorine: 0.5%	Solubility:	
Barium Oxide: 0.18%	 Negligible in water and weak acids Soluble in hot concentrated alkali and HF Moderately soluble (<10%) in 1N NaOH 	
Magnesium Oxide: 0.12%		
• Bound Water: 3.0%	• 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



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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 soils and soilless grow media, masonry loose fill insulation, and lightweight insulative concrete and plaster applications.

PACKAGING OPTIONS

- Plastic Bags (4 cubic feet)
- Super sacks (55 or 118 cubic feet)