Hess Grade: ⅛ fines MN

PARTICLE SIZE SPECIFICATION GRADE ⅛ fines MN

SIZE			ALLOWABLE PERCENT PASSING
MICRON	MM	U.S. MESH	
4750	4.75	4	100
2380	2.38	8	90-100
1180	1.18	16	60-90
600	0.6	30	40-80
300	0.3	50	25-60
150	0.15	100	10-30
75	0.075	200	0-15
TEST METHOD: ASTM C136-06			

LOOSE BULK DENSITY GRADE ⅛ fines MN

64 lb/per cubic foot (damp) [**1025** kg/per cubic meter] (ASTM C29)

Left: HP Grade one-eighth fines MN* (mine grade) has a 1/8-inch top-end stone size with extensive fines content. **Right**: Grade used to amend heavy clay soil—improve root zone aeration, drainage and moisture retention, resist compaction—for a thriving lawn.

*MINE GRADES are crushed and screened at the mine and are not dried for packaging in palleted production bags, but rather available in bulk quantities.

GRADE APPLICATIONS

- Lightweight aggregate/sand for block (CMU) and manufactured stone and brick veneer products
- Lightweight plaster sand
- Soil conditioner for damaged and/or poor native soils
- Lightweight engineered soils
- Spill absorbent
- Bulking agent
- Compost conditioner

RETAIL PRODUCT BRANDS

Brands under the Hess umbrella using HP Grade 1/8 fines MN: SoilRox™ Amender•XF, Compost Sugar™, Rūtsu™ Fines.

PACKAGING OPTIONS

- 2.5 lb [1.1 kg] resealable bags
- 20 lb [9 kg] box
- 32 lb [14.5 kg] pails
- 900 lb [408 kg] super sacks (palleted)
- 2000 lb [907 kg] super sacks (palleted)
- Bulk shipped in rail car or tractor trailer

ORDER

- Samples, small quantities: order direct from the **PumiceStore.com**
- Palleted super sacks, truckloads: contact us at **sales@hesspumice.com** or call **208-766-4777**

PUMICE TECHNICAL DATA

Chemical analysis, physical properties, and other common data shared by all Hess Pumice grades are detailed on back.

Hess PUMICE
IDAHO USA

(208) 766-4777 • www.**hesspumice.com**

Mining and refining the purest commercial deposit of white pumice on the planet.

Hess Pumice Technical Data

CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES

Chemical Name: Amorphous Aluminum Silicate

TYPICAL ANALYSIS	GENERAL PROPERTIES
• Silicon Dioxide: 76.2%	• Appearance: White powder
• Aluminum Oxide: 13.5%	• Hardness (MOHS): 6
• Ferric Oxide: 1.1%	• pH: 7.2
• Ferrous Oxide: 0.1%	• Radioactivity: None
• Sodium Oxide: 1.6%	• Softening Point: 900 degrees C
• Potassium Oxide: 1.8%	• Water Soluble Substances: 0.15%
• Calcium Oxide: 0.8%	• Loss on Ignition - 5%
• Titanium Oxide: 0.2%	• GE Brightness: 84
• Magnesium Oxide: .05%	• Specific Gravity: 2.2
• Moisture: <1.0%	• Reactivity: Inert (except in the presence of calcium hydroxide or hydrofluoric acid)
• Crystalline SiO_2: None Detected	

DESCRIPTION

Amorphous (non-crystalline) in structure and composed primarily of aluminum silicate, pumice is a naturally calcined volcanic glass foam consisting of highly vesicular strands permeated with tiny air bubbles. It is these frothy, friable glass vesicles that, when carefully refined to various grades, give pumice its unique and infinitely useful qualities.

NOTES

• Chemical analysis and physical properties provided are common to all raw Hess pumice grades.

• **Grade Variety**. The natural, hard-yet-friable character of our pumice combined with our crushing and screening expertise allow us to offer pumice grades and grade blends down to 3 microns.

• **Safe to Use**. No hazardous crystalline structure: testing for crystalline silica (airborne particles of respirable size) finds no measurable Crystalline Silica (SiO_2) present. Free of heavy metals, pesticides, nano-particles, allergens. Certified organic input material.

• **Purity**: As the result of centuries of wave action from a now-extinct inland sea, our pumice is remarkably pure. Our mine grades are typically comprised of 98% pumice and 2% other igneous minerals, which are not removed through our mining processes.

• **Storage**: Keep dry and protected from the elements until use.

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