Hess Grades (General)

PARTICLE SIZE SPECIFICATION GENERAL

SIZE			ALLOWABLE	
MICRON	MM	U.S. MESH	PERCENT PASSING	
			Varies with Grade	
TEST METHOD: ASTM C136-06				

LOOSE BULK DENSITY GENERAL

35 to **60** lbs/per cubic foot [**560.6** to **961.1** kg/per cubic meter], depending on grade (ASTM C29)

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: 0.05%	 Specific Gravity: 2.4 	
• Moisture: <1.0%	Reactivity: Inert	
Crystalline SiO ₂ : None	(except in the presence of calcium	

 Crystalline Si0₂: None Detected

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

hydroxide or hydrofluoric acid)

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.

GRADE USES

Concrete—lightweight aggregate and sand, concrete pozzolan (SCM).

Abrasives—sand blast grit, shaped pumice scrubbing and exfoliating stones, polishing and tumbling grit.

Lightweight Aggregate—lightweight concretes, precast stone veneers, plaster sand, mortar sand, geotechnical fills, concrete masonry units (CMUs).

Exfoliants—cosmetics, hand cleaners.

Filtration—Water treatment filtration media, engineered biofitration soils.

Horticultural—soil amendment, soilless grow media, compost amender.

Texturizing Grit—in-suspension grit for primers, paints, and industrial coatings.

Livestock and Pets—dust bathing, chew stones, shaped grooming stones, confined-space moisture control.

Functional Filler—non-crystalline silica (micronized) for paints, coatings, rubber compounds.

PACKAGING OPTIONS

• 1 to 55 lb [0.45 to 25 kg] bags, boxes, pails, jars—depending on grade

- Up to 2200 lb [998 kg] super sacks (palleted)
- Bulk shipped in rail car or tractor trailer