

Hess Grade 1/2

ISSUE 1970
 REVISION 4/2001
 REVIEW 4/2008

PARTICLE SIZE SPECIFICATION GRADE 1/2

SIZE		ALLOWABLE PERCENT PASSING
MICRON/MM	U.S. MESH	
300/0.3	50	99.5-100
250/0.25	60	70-80
180/0.18	80	4-16
150/0.15	100	0-8
75/0.075	200	0-4

TEST METHOD: ASTM C136-06

LOOSE BULK DENSITY GRADE 1/2

881 kg/per cubic meter (ASTM C29)

CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES

Chemical Name: Amorphous Aluminum Silicate

TYPICAL ANALYSIS

- Silicon Dioxide: 76.2%
- Aluminum Oxide: 13.5%
- Ferric Oxide: 1.1%
- Ferrous Oxide: 0.1%
- Sodium Oxide: 1.6%
- Potassium Oxide: 1.8%
- Calcium Oxide: 0.8%
- Titanium Oxide: 0.2%
- Magnesium Oxide: .05%
- Moisture: <1.0%
- Crystalline SiO₂: None Detected

GENERAL PROPERTIES

- Appearance: White powder
- Hardness (MOHS): 6
- pH: 7.2
- Radioactivity: None
- Softening Point: 900 degrees C
- Water Soluble Substances: 0.15%
- Loss on Ignition - 5%
- GE Brightness: 84
- Specific Gravity: 2.35
- Reactivity: Inert
(except in the presence of calcium 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 APPLICATIONS

Used for: concrete surfacing additive, cosmetics exfoliant grit, dental compounds and denture finishing, erasers, pumice stones (cosmetic), hand soaps.

PACKAGING OPTIONS

- 20 kg sacks (palletted)
- 907 kg super sacks (palletted)
- Bulk shipped in pneumatic rail car or tractor trailer

DISTRIBUTOR NETWORK

We have stocking distributors in 23 countries on every continent except Antarctica, allowing us to deliver pumice quickly and economically worldwide.



Hess | **PUMICE**

IDAHO USA

(208) 766-4777 x111 • email: rd@hesspumice.com

www.hesspumice.com

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