

# Hess Grade 0<sup>1</sup>/<sub>2</sub>

ISSUE 1990  
REVISION 4/2001  
REVIEW 4/2009

## PARTICLE SIZE SPECIFICATION GRADE 0<sup>1</sup>/<sub>2</sub>

SIZE		ALLOWABLE PERCENT PASSING
MICRON [MM]	U.S. MESH	
250 [0.25]	60	99.5-100
180 [0.18]	80	85-95
150 [0.15]	100	67-83
106 [0.106]	140	40-65
75 [0.075]	200	28-42

TEST METHOD: ASTM C136-06

## LOOSE BULK DENSITY GRADE 0<sup>1</sup>/<sub>2</sub>

59 lb/per cubic foot [945 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 SiO<sub>2</sub>: 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: 2.4
- 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:** dental compounds and denture finishing, cosmetic exfoliant grit, brass polishing, metal finishing, glass beveling, sand blasting, soap paste and gels, TV glass grinding, wood finishing.

## PACKAGING OPTIONS

- 1 lb or 1 kg bags; 2.5 lb [1.1 kg] jar
- 25 to 45 lb [11.3 / 20.4 kg] bags
- 1000 to 2000 lb [454 / 907 kg] super sacks (palleted)
- Bulk shipped in 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.*

