

# Hess Grade G1

ISSUE 2008  
REVISION N/A  
REVIEW N/A

## PARTICLE SIZE SPECIFICATION GRADE G1

SIZE		ALLOWABLE PERCENT PASSING
MICRON/MM	U.S. MESH	
425/0.425	40	99.5-100
300/0.30	50	66-78
250/0.25	60	36-66
180/0.18	80	0-6

TEST METHOD: ASTM C136-06

## LOOSE BULK DENSITY GRADE G1

897 kgs/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: 2.35
- 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: metal finishing, anti-skid paints and coatings, cosmetics (exfoliant), sand blasting media.

## PACKAGING OPTIONS

- 20.4 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

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

