

# Hess Grade FFF

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## PARTICLE SIZE SPECIFICATION GRADE FFF

SIZE		ALLOWABLE PERCENT PASSING
MICRON [MM]	U.S. MESH	
106 [0.106]	140	99.5-100
90 [0.090]	170	99.5-100
75 [0.075]	200	94-100
45 [0.045]	325	69-83

TEST METHOD: ASTM C136-06

## LOOSE BULK DENSITY GRADE FFF

46 lb/per cubic foot [736.8 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: 2.4
- 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:** finish aircraft cockpits, circuit board prep, copper plated panel prep, chrome cleanser, cosmetic exfoliant grit, dental compounds, erasers, glass cleaner, hand soaps, tumbling media, wood finishing.

## PACKAGING OPTIONS

- 1 lb or 1 kg resealable bags
- 1 or 2.5 or 5 lb [0.45 / 1.1 / 2.2 kg] jars
- 16 or 18 lb [7.2 / 8 kg] bags
- 25 lb [11.3 kg] bags or boxes (palletted)
- 44 lb [20 kg] bags (palletted)
- 50 lb [22.6 kg] bags or boxes (palletted)
- 1200 lb [544 kg] super sacks (palletted)
- 2000 lb [907 kg] super sacks (palletted)
- 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.*