

Hess Grade: FFFD

ADDITIONAL GRADE SHARING THESE SPECS: **FFF**

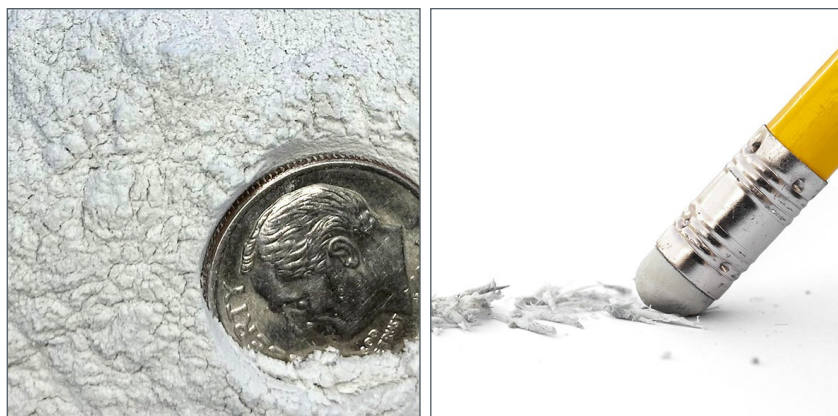
PARTICLE SIZE SPECIFICATION GRADE FFFD

| SIZE | | | ALLOWABLE PERCENT PASSING |
|--------|-------|-----------|---------------------------|
| MICRON | MM | U.S. MESH | |
| 106 | 0.106 | 140 | 99.5-100 |
| 90 | 0.09 | 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 FFFD

46 lb/per cubic foot [736.8 kgs/per cubic meter] (ASTM C29)



Left: HP Grade designation FFFD. **Right:** Grade used as a gentle abrasive to increase pencil-top eraser effectiveness when removing slippery graphite.

GRADE APPLICATIONS

- Circuit board polish and prep
- Copper surface prep; conditioning
- Dental pastes and denture polishing compounds
- Chrome and glass cleansers/polishes
- Exfoliating cosmetic soaps and scrubs
- Wood finishing
- Pencil erasers

PACKAGING OPTIONS

- 1 or 2.5 lb resealable bags
- 20 lb [9 kg] box
- 45 lb [20.4 kg] bags
- 2000 lb [907 kg] super sacks (palletted)
- Bulk shipped in rail car or tractor trailer

ORDER

- Samples, small quantities, and single production bags (up to 3): order direct from the **PumiceStore.com**
- Partial pallets, full pallets, truckloads: contact us at sales@hesspumice.com or call **208-766-4777**

PUMICE TECHNICAL DATA

Chemical analysis, physical properties, and other common data shared by all Hess Pumice grades are detailed on back.



(208) 766-4777 • www.hesspumice.com

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

Hess Pumice Technical Data

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: .05% | • Specific Gravity: 2.2 |
| • Moisture: <1.0% | • Reactivity: Inert |
| • Crystalline SiO ₂ : None Detected | (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.

NOTES

- Chemical analysis and physical properties provided are common to all raw Hess pumice grades.
- **Grade Variety.** The natural, hard-yet-friable character of our pumice combined with our crushing and screening expertise allow us to offer pumice grades and grade blends down to 3 microns.
- **Safe to Use.** No hazardous crystalline structure: testing for crystalline silica (airborne particles of respirable size) finds no measurable Crystalline Silica (SiO₂) present. Free of heavy metals, pesticides, nano-particles, allergens. Certified organic input material.
- **Purity:** As the result of centuries of wave action from a now-extinct inland sea, our pumice is remarkably pure. Our mine grades are typically comprised of 98% pumice and 2% other igneous minerals, which are not removed through our mining processes.
- **Storage:** Keep dry and protected from the elements until use.



Pumice is a foamed glass stone naturally expanded by explosive volcanic eruption.