

Hess Grade: NCS-3

PARTICLE SIZE SPECIFICATION GRADE NCS-3

Dx	SIZE: MICRON	SIZE: MM
D90	< 13	0.013
D50	2-4	0.002-0.004
TEST METHOD: Refer to Standard Method		

LOOSE BULK DENSITY GRADE NCS-3

35 lb/per cubic foot [560.6 kg/per cubic meter] (ASTM C29)

OTHER PROPERTIES GRADE NCS-3

HEGMAN GRIND	OIL ABSORPTION (cc/100g)
8.0	44.10
MEAN PARTICLE SIZE (vol, μm)	ISO BRIGHTNESS (dry)
6.7	83



HP Grade NCS-3 (Non-Crystalline Silica) is our finest micronized pumice grade, used as an ultra-reactive pozzolan for precast glass-fiber reinforced concrete panels, like these cast rock-face veneers.

GRADE APPLICATIONS

- Functional filler in paints and coatings
- Ultra-reactive pozzolan in cementitious precast pieces such as glass-fiber reinforced concrete (GFRC) panels and decorative stone and brick veneers

RETAIL PRODUCT BRANDS

Brands under the Hess umbrella using HP NCS-3: Hess UltraPozz™.

PACKAGING OPTIONS

- 1 or 2.5 lb resealable bags
- 20 lb [9 kg] box
- 50 lb [22.6 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.