

# Hess NCS Grades

## NON-CRYSTALLINE SILICA CHARACTERISTICS

**Chemical Name:** Amorphous Aluminum Silicate

TYPICAL PROPERTIES	NCS-3	NCS-5	NCS-8	NCS-10	NCS-12
Mean Particle Size (volume, microns)	6.7	10.3	14.0	14.2	17.2
ISO Brightness (dry)	83	82	80	78	76
Oil Absorption (cc/100g) ASTM D281	44.1	41.6	35.9	34.5	34.9
Hegman Grind	8.0	6.5	6.0	5.0	4.5
325 Mesh Residue (%)	<0.04	<0.04	<0.08	<0.4	<1.5
Moisture (%)	<1.0	<1.0	<1.0	<1.0	<1.0
Specific Gravity	2.35	2.35	2.35	2.35	2.35
Pounds / Cubic Foot Dry	38.1	37.6	42.9	43.5	46.1
CHEMICAL PROPERTIES	NCS-3	NCS-5	NCS-8	NCS-10	NCS-12
SiO <sub>2</sub>	>73	>73	>73	>73	>73
Al <sub>2</sub> O <sub>3</sub>	>10	>10	>10	>10	>10
Acid Insolubles (%)	<1	<1	<1	<1	<1
PARTICLE SIZE DISTRIBUTION	NCS-3	NCS-5	NCS-8	NCS-10	NCS-12
Finer than 44 microns (%)	100.0	100.0	98.2	97.5	94.4
Finer than 7 microns (%)	62.1	42.7	32.9	33.9	26.9
Finer than 1 micron (%)	0.0	0.0	0.0	0.0	0.0

## TYPICAL PARTICLE SIZE DISTRIBUTION CURVES

See PAGE 2 for Typical Particle Size Distribution Curves for **Hess NCS Grades 3, 5, 8, 10 and 12**



(208) 766-4777 x111 • email: rd@hesspumice.com  
www.hesspumice.com

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

## 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 grade, give pumice its unique and infinitely useful qualities.

Our amorphous aluminum silicate products are non-hazardous (crystalline silica free to the detectable limit of .05%), inert, near white, with a pH of 7.2.

Our NCS products provide outstanding scrub, burnish, and stain resistance properties due to the hardness of the particles (5.8 Mohs hardness).

## TOXICOLOGICAL INFO

Classified as Nuisance Dust only. Silica-Group 3.

## REGULATORY INFO

Not regulated.

## PACKAGING OPTIONS

20 kg or 50 lb poly-lined paper bags (palletted); 2000 lb super sacks (palletted).

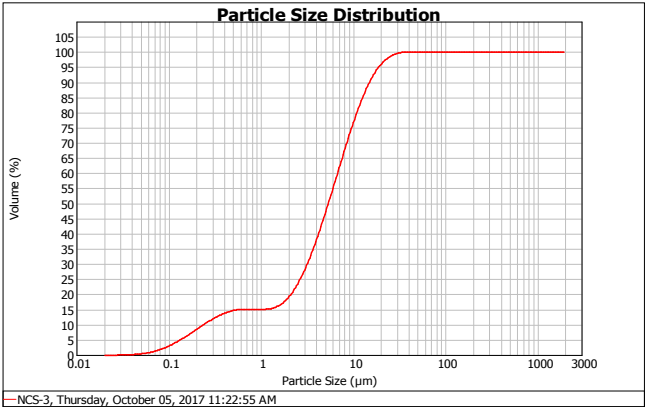
## DISTRIBUTOR NETWORK

We have stocking distributors in 23 countries on every continent except Antarctica, allowing us to deliver pumice quickly and economically worldwide.

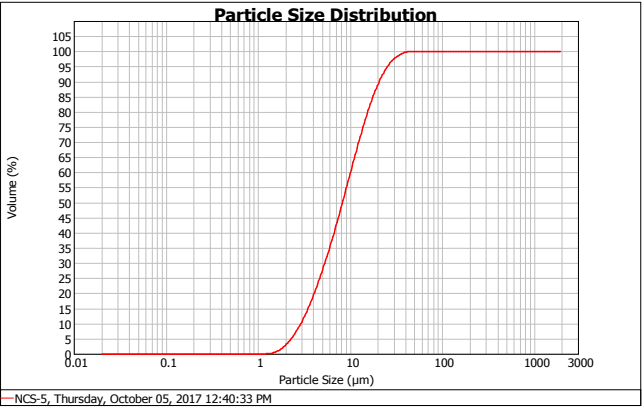
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## TYPICAL PARTICLE SIZE DISTRIBUTION CURVES

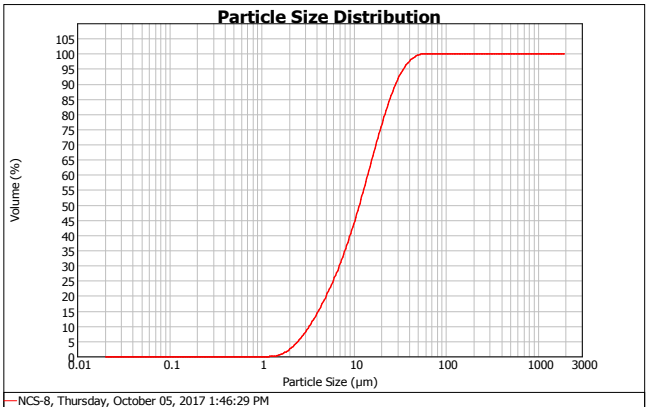
### NCS-3



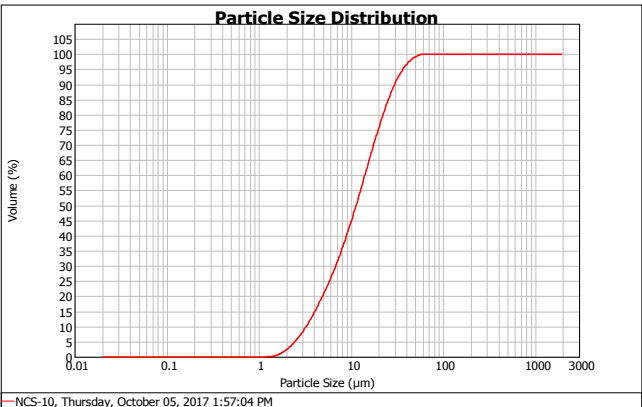
### NCS-5



### NCS-8



### NCS-10



### NCS-12

