

Hess Pumice Fact Sheet

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CHEMICAL ANALYSIS AND PROPERTIES

Chemical Name: AMORPHOUS ALUMINUM SILICATE

TYPICAL CHEMICAL 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 - 0.05%
Moisture - <1.0 %

GENERAL PHYSICAL PROPERTIES

Hardness (Mohs) - 6
pH - 7.2
Radioactivity - 0
Crystalline SiO ₂ - None Detected
HMIS - 0
Iron as Fe - No Blue Color
Softening Point - 900 degrees C
Loss on Ignition - 5%
GE Brightness - 84
Specific Gravity - 2.35

An industrial materials company can be very good at what they do, but without a quality product, the high ground simply can't be held. We count ourselves fortunate that our pumice deposit is world-class. Worldwide, our pumice enjoys advantages in whiteness, hardness, density, and natural purity. Our deposit has a confirmed yield in the millions of tons. Three modern processing facilities and a state-of-the-art testing lab ensure we can consistently deliver to the ordered specification.

TYPICAL SIEVE SCREEN ANALYSIS OF VARIOUS GRADES [DOES NOT INCLUDE ALL GRADES]

MESH SIZE	325	4F	3F	2F	F	0	1/2	3/4	1/2	1	1 1/2	2	3	5	7	10	MICRON
4																100	4750
8															100	73	2360
10														100	90	38	2000
14												100	100	77	65	7	1400
30												99	21	5	2	4	600
40									100	100	57	7					425
50							100	72	31	11	4						300
60						100	100	75	51	13	6	2					250
80					100	90	77	10	3	4							180
100	100				100	97	75	43	4								150
120					98												125
140				100	93	79	55	9									106
170		100	100	98													90
200	98	99	97	91	65	55	35	4	2								75
325	89	85	76	70													45
Unit Wt.	45	45	45	50	55	55	60	55	50	50	47	41	43	43	41	42	LBS/C.F.
A.P.S.	16	22	33	30	84	95	122	188	277	329	386	503	950	1330			MICRON

TYPICAL LASER DIFFRACTION ANALYSIS OF HESS NCS PRODUCTS

DX	3	5	10	12	15
90	8	15	27	29	30
75	5	9	18	21	22
50	3	5	10	13	14
25	2	2	4	5	6
10	1	1	1	3	3
MEDIAN	3	5	10	13	14
MEAN	4	7	12	14	15

ABOVE GRADUATION ARE ONLY TYPICAL. NORMAL PRODUCTION TOLERANCES FROM THE TYPICAL WILL BE PERMITTED. A TRACE IS ALLOWABLE ON THE NEXT COARSER SIEVE.

TEST METHOD: ASTM C136-06 (SIEVES) / NCS PRODUCTS BY LASER DIFFRACTION / FRAUNHOFER METHOD



Have specific questions?
Want to do in-house testing in
your own lab? Contact us.

Hess Pumice Products

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