

CHARLES B. CHRYSTAL CO., INC

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INDUSTRIAL MINERALS SINCE 1897

SPHERE KAM 45

Kam Grade 45 is produced by the selective milling of expanded Volcanic Ash followed by chemical fusion and air classification. A naturally occurring glass, it is inert, tasteless, odorless and only slightly soluble in water or mineral acids.

Permeability Flowrate (volume basis)----- 85 to 115
50 is available upon request.

Filter Cake Density (pounds per cubic foot)--- 14.5 to 15.5

EFFECTIVE VOID VOLUME (PER 100 POUNDS) = 5.0 CUBIC FEET

CHEMICAL ANALYSIS

Crystalline Silica	Not detectable
Amorphous Silica (SiO ₂)	72.8%,
Al ₂ O ₃	14.6%,
K ₂ O	5.8%,
Na ₂ O	3.9%,
Fe ₂ O ₃	0.75%,
CaO	0.28%,
CuO	0.00005%,
Hg	Not detectable
As	Not detectable

SOLUBLES

In boiling water for one hour	0.88%
In strong mineral acid for one hour	1.91%,
In strong Alkali (Sodium Hydroxide) for one hour	18.6%
Acid soluble Fe ₂ O ₃ for one hour (1% HCL)	0.047%
Acid soluble CaO for one hour (1% HCL)	

PHYSICAL PROPERTIES

PARTICLE SIZE ANALYSIS (Based on 1000-gram sample)

U.S. STANDARD SIEVE	PERCENT LIMITS BY WEIGHT		PERCENT LIMITS BY VOLUME	
	LOW	HIGH	LOW	HIGH

100	3.0	18.0
200	22.0	60.0
325	17.0	41.0
- 325 (PAN)	6.0	24.0

PHYSICAL CHARACTERISTICS

Bulk Density	8.5 to 9.5 lbs./cu. ft.
Specific Gravity	2.34
Color	Off White