

# CHARLES B. CHRYSTAL CO., INC

30 VESEY STREET

NEW YORK, NY 10007

TEL: 212-227-2151 FAX: 212-233-7916

WEB SITE: [www.cbcrystal.com](http://www.cbcrystal.com)

E-Mail: [info@cbcrystal.com](mailto:info@cbcrystal.com)

INDUSTRIAL MINERALS SINCE 1897

## MINERAL BEADS GRADE #5

Mineral Beads Grade 5 is produced from Volcanic Ash, a naturally occurring glass. It is inert, tasteless, odorless, and only slightly soluble in water or mineral acids. Grade 5 is produced by expanding Volcanic Ash followed by grinding and classification.

### TYPICAL CHEMICAL ANALYSIS

Crystalline Silica	Not detectable
Amorphous Silica (SiO <sub>2</sub> )	72.8%
Al <sub>2</sub> O <sub>3</sub>	14.6%
K <sub>2</sub> O	5.8%
Na <sub>2</sub> O	3.9%
Fe <sub>2</sub> O <sub>3</sub>	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 <sub>2</sub> O <sub>3</sub> for one hour (1% HCL)	0.047%
Acid soluble CaO for one hour (1% HCL).	

### PARTICLE SIZE ANALYSIS (BY U.S. STANDARD SIEVE)

#### U.S. STANDARD SIEVE

+100	46%
100/200	23%
-200	31%

### PHYSICAL CHARACTERISTICS

Bulk Density 5.4 to 6.2 lbs./cu. ft.