



BYRON, CA

**G3 FELDSPATHIC SAND (AMBER 410)  
MATERIAL SPECIFICATIONS  
GLASS CONTAINER**



*January 2020*

**TECHNICAL DATA**

**FEATURES AND BENEFITS**

Glass sand is water-washed and kiln-dried, and then graded to conform to exacting particle size specifications. The consistency and uniformity of this sand allows for trouble-free storage and conveyance with minimal dust and no segregation. Byron sand contains alumina, an essential element of glass blend that add structural integrity to glass containers.

**PARTICLE SIZE ANALYSIS AND PROPERTIES**

Estimated mean values.

U. S. Sieve Series % Retained On	Acceptable Range of Variation	
	Minimum	Maximum
+ 8 mesh (2.36 mm)		
+ 12 mesh (1.70 mm)		
+ 16 mesh (1.18 mm)	None	None
+ 20 mesh (0.85 mm)	0%	0%
+ 30 mesh (0.60 mm)	1%	10%
+ 40 mesh (0.425 mm)	8%	30%
+ 50 mesh (0.30 mm)	18%	30%
+ 70 mesh (0.212 mm)	12%	26%
+ 100 mesh (0.15 mm)	6%	20%
+ 140 mesh (0.106 mm)	4%	12%
+ 200 mesh (0.075 mm)		Through 140 mesh 7.5%
- 200 mesh		

Grain Shape:	Subangular
pH:	6.5-7.5 (Neutral)
Bulk Density (g/cm <sup>3</sup> ):	1.50 Mean Percent by Weight
Soluble Salts (mmhos/cm):	<0.1

CHEMICAL ANALYSIS		
Mean Values. These Do Not Represent A Specification		
		<b>4010</b>
		(%)
Silicon dioxide	(SiO <sub>2</sub> )	91 - 95
Iron oxide	(Fe <sub>2</sub> O <sub>3</sub> )	Max. 0.19
Aluminum oxide	(Al <sub>2</sub> O <sub>3</sub> )	3.2 - 4.5
Total R2O	(Na <sub>2</sub> O+K <sub>2</sub> O)	2.75 - 4.0
Moisture		Max 0.1

**ORDERING INFORMATION**

Shipping Point: **BYRON, CA**

Availability: **BULK, SUPER SACK**

GRADE NUMBERS INDICATE RELATIVE OR RESULTS. THEY ARE NOT A SPECIFICATION OR WARRANTY OF PERFORMANCE.

**HEALTH HAZARD WARNING:** Prolonged inhalation of dust associated with the materials described in this data sheet can cause delayed lung injury including Silicosis, a progressive, disabling and sometimes fatal lung disease. IARC has determined that crystalline silica, inhaled from occupational sources, can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure. Follow OSHA or other relevant safety and health standards for the form of crystalline silica called Quartz. Current material safety data sheets, containing safety information, are available and should be consulted before usage.