

TECHNICAL DATA



AMBER 410 MELTING SAND

FEATURES AND BENEFITS

BYRON, CA

Melting Sands are produced from feldspar, whole grain crystalline silica sands. Consistent size distributions and the statistically accurate removal of coarse and fine grains offer glass manufacturers a uniform melt with lower energy requirements, reduced incidence of foaming or formation of bath scum and an optimal mix to fully integrate all batch components. Consistent levels of iron and other refractive elements offer the advantage of more uniform batch chemistry, for greater control without additions over critical quality parameters like viscosity, color and clarity.

PARTICLE SIZE ANALYSIS AND PROPERTIES

Typical Values. These Do Not Represent A Specification.

Mesh Size		410	Typical Range % Retained on Individual Sieves
ASTM	MICRONS		
20	850	---	
30	600	0.2-2.5	
40	425	9.0-17.5	
50	300	19.0-28.0	
70	212	20-28.5	
100	150	16-22.5	
140	106	8.0-17.5	
200	75	2.5-7.0	
270	53	0.4-2.0	
PAN	PAN	0.1-1.0	

Melting Point (°F/°C)	3135/1724	ASTM C-24
Specific Gravity (g/cm ³)	2.65	ASTM C-128
Moisture Content (%)	<0.1	ASTM C-566
Bulk Density, loose (lb/ft ³)	92-95	ASTM C-29
Bulk Density, compacted (lb/ft ³)	98-100	ASTM C-29

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CHEMICAL ANALYSIS

Typical, These Do Not Represent A Specification.

Percent by Weight

Silicon Dioxide	(SiO ₂)	91.20 – 92.75
Iron Oxide	(Fe ₂ O ₃)	0.11 - 0.20
Aluminum Oxide	(Al ₂ O ₃)	3.5 - 4.8
Calcium Oxide	(CaO)	0.02-0.08
Titanium Dioxide	(TiO ₂)	0.04-0.14
Magnesium Oxide	(MgO)	0.01-0.03
Potassium Oxide	(K ₂ O)	2.6-3.2
Sodium Oxide	(Na ₂ O)	0.2-0.4
Loss on Ignition	(L.O.I.)	0.23-0.45

ORDERING INFORMATION

Shipping Point: BYRON, CA G3 ENTERPRISES

Availability: BULK ONLY
 TRUCK ONLY

FOR PRODUCT INFORMATION AND CUSTOMER SERVICE:

U.S. and CANADA 925-634-3575 • FAX 925-634-1632

GRADE NUMBERS INDICATE RELATIVE VALUES 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.

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Silica/Silica Containing

BYRON- Amber 410 (09/11)