

Features and Advantages

Sil Industrial Minerals Blasting Sands are sub-angular grain, crystalline silica sand with a hardness and uniformity superior to common or local river sands.

All *Sil Industrial Minerals Blasting Sands* are mined, washed, sized, dried and screened under our ISO 9002 Quality Assurance Program. Both feed stock and final products are processed through our modern Bruderheim Plant using the latest industrial sand processing technology. The result is chemical purity, minimal clay and adhesion impairing contaminants with a consistent uniform particle size distribution.

Using *Sil Industrial Minerals Blasting Sands* can minimize coating failures due to surface impingement or trace mineral contamination, and can significantly reduce fine particle dusting to improve worker production.

Sil Industrial Minerals Blasting Sands are used for the surface preparation for coatings of bridges, concrete, construction equipment, derricks, rigs, tanks, vessels and many other heavy equipment items.

Particle Size Analysis					
	Mesh (ASTM E-11)	Sil 1 Fine	Sil 4 Medium	Sil 7 Coarse	
Sieve Analysis	8			0.0	
	16		0.0	5.5	
(Typical mean %	20		0.3	8.5	
Retained on	30	0.0	5.0	25.5	
Individual Sieves)	40	0.4	51.1	40.0	
,	50	10.3	38.9	18.4	
	60	28.1	3.6	1.5	
	80	44.1	0.8	0.4	
	100	10.6			
	140 200	5.8 0.1	0.3	0.2	

Product Properties

Property	Test Method	Unit	Typical Values
Mineral Shape Hardness Specific Gravity Bulk Density, aerated compacted	Petrographic Krumbein ASTM C-128 ASTM C-29 ASTM C-29	 Moh Lbs/Ft ³ Lbs/Ft ³	Quartz Sub-Angular 6.5 2.65 92-95 98-100

Chemical Analysis

				ASTM
Mean Percent by W	<u>/eight</u>	<u>Sil 1</u>	<u>Sil 4 & 7</u>	Test Method
Silicon Dioxide	(SiO_2)	92.53	92.30	
Iron Oxide	(Fe_2O_3)	0.95	0.90	
Aluminum Oxide	(Al_2O_3)	4.32	4.42	
Calcium Oxide	(CaO)	0.48	1.09	
Titanium Dioxide	(TiO_2)	0.06	0.08	
Magnesium Oxide	(MgŌ)	0.08	0.24	
Potassium Oxide	(K_2O)	0.99	0.68	
Sodium Oxide	(Na ₂ O)	0.82	0.86	
Sulphur	(SO_3)	0.06	0.07	
Manganese	(MnO)	0.01	0.02	
Phosphorous	$(P_{2}O_{2})$	0.03	0.08	ASTMC 114-15
Loss on Ignition	(L.O.I.)	0.24	0.54	LiBO ₃

Ordering Information

Shipping Point:	Bruderheim, AB & Edmonton, AB
Packaging:	<i>Sil Industrial Minerals Blasting Sands</i> are available in 22.7 kg (50 lb) and 40 kg (88 lb) multiwall paper bags, 1.725 tonne (3,800 lb) bulk bags and bulk in dedicated pneumatic truckloads.

Sil Industrial Minerals Inc.