



**GENERAL INDUSTRIAL AND CONSTRUCTION SANDS**



**TECHNICAL DATA**

**FEATURES AND BENEFITS**

Mineral fillers are produced from industrial quartz sands for a wide variety of industrial and contractor mixed applications which need a reliable silica contribution or require a chemically inert structural filler. Consistently uniform grain shapes and particle size distributions offer excellent placement, compaction and mechanical properties. High silica content combined with low level soluble ions, alkalis and alkaline oxides provide non-reactive service in most corrosive and exposed environments. These durable monocrystalline structures resist abrasion in high traffic-excessive wear applications and provide the stability formulators seek in high solids emulsions, elastomeric, cemented and modified cementitious systems.

**PARTICLE SIZE ANALYSIS AND PROPERTIES**

Estimated Mean Values.

	<b>MESH (ASTM E-11)</b>	<b>4075 Coarse Sand</b>	<b>4010 Fine Sand</b>	<b>Utility 2</b>
	10 (2.00 mm)	---	---	---
Typical Mean % Retained on Individual Sieves	20 (.850 mm)	4 - 12	0	4 - 12
	30 (.600 mm)	45 - 65	1 - 10	45 - 65
	40 (.425 mm)	25 - 30	8 - 30	25 - 30
	50 (.300 mm)	1 - 10	18 - 30	1 - 10
	70 (.212 mm)	0.1 - 5	12 - 26	0.1 - 5
	100 (.150 mm)	0.1 - 1	6 - 20	0.1 - 1
	140 (.106 mm)	0.1 - 0.3	4 - 12	0.1 - 0.3
	200 (.075 mm)	0.1 - 0.2	1 - 6	0.1 - 0.2
	270 (.053 mm)	0 - 0.1	0.1 - 2	0 - 0.1
	Typical Moisture Content:		<0.50	<0.50

Grain Shape:	Subangular
pH:	6.5-7.5 (Neutral)
Bulk Density, loose (lb./ft. <sup>3</sup> ):	92-95
Bulk Density, compacted (lb./ft. <sup>3</sup> ):	98-100
Soluble Salts (mmhos/cm):	<0.1
Specific Gravity (g/cm <sup>3</sup> ):	2.65
Hardness (mohs):	7.0

<b>CHEMICAL ANALYSIS</b>		
Mean Values. These Do Not Represent A Specification		
<u>TD 320/TD 330</u>		
Silicon dioxide	(SiO <sub>2</sub> )	91 – 95
Iron oxide	(Fe <sub>2</sub> O <sub>3</sub> )	0.09 – 0.20
Aluminum oxide	(Al <sub>2</sub> O <sub>3</sub> )	2.5 – 4.5
Sodium oxide	(Na <sub>2</sub> O)	0.10 – 0.4
Loss on Ignition	(L.O.I.)	0.18 – 0.45

FOR SAMPLES OR MORE INFORMATION, please call 1-833-229-SAND (7263).

Shipping Point: **BYRON, CA**  
 Availability: **BULK ONLY**  
**TRUCK ONLY**

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.