Industrial Silica Sand

TYPICAL CHEMICAL COMPOSITION

SiO2	Silicon dioxide	>95%
KAlSi3O8	Potassium feldspars	<3%
NaAlSi3O8	Plagioclase	<1%
CaCO3	Calcite	<1%
	Mica	<1%

APPLICATIONS AND BENEFITS OF OUR WASHED, DRIED, & SORTED SILICA SAND:

- Raw material for precast concrete products
- Water filtration media (ANSI/NSF 61 complaint)
- Foundry sand / refactory for mold and core
- Turf and sport tracks including synthetic fields, equestrian tracks, volleyball courts, and baseball diamonds

TYPICAL PARTICLE SIZE DISTRIBUTION

Typical Sieve Analysis												
	#12 Silica Sand		#16 Silica Sand		#20 Silica Sand		#30 Silica Sand		#60 Silica Sand		#70 Silica Sand	
US Sieve Size No.	% Retained	Range	% Retained	Range	% Retained	Range	% Retained	Range	% Retained	Range	% Retained	Range
10	0	0-10										
12	6	5-15	0	0-5								
16	44	40-70	1	0-10	0	0-3						
20	49	25-55	58	50-70	3	2-5	0	0-3				
30	1	0-2	40	30-50	59	35-65	4	0-20	0	0-3		
40			1	0-5	37	15-45	65	40-70	1	0-5	0	0-3
50			0	0-5	1	2-10	30	20-50	78	60-90	4	0-5
70					0	0-2	1	0-10	20	15-30	72	60-90
100							0	0-5	0	0-10	23	15-30
140									0	0-5	1	0-10
200											0	0-5
270												
AFS Grain Fineness	**14**		**18**		**24**		**33**		**42**		**55**	

TYPICAL PHYSICAL PROPERTIES

	#12 Silica Sand	#16 Silica Sand	#20 Silica Sand	#30 Silica Sand	#60 Silica Sand	#70 Silica Sand
Color	Tan	Tan	Tan	Tan	Tan	Tan
Grain Shape	Sub-angular	Sub-angular	Sub-angular	Sub-angular	Sub-angular	Sub-angular
Roundness	0.7	0.7	0.6	0.6	0.7	0.7
Sphericity	0.7	0.7	0.7	0.8	0.7	0.7
Turbidity (FTU)	40	91	73	18	37	69
Bulk Density (lb/ft3)	95.5	96.67	93.6	92.97	91.71	90.4
Bulk Density (g/cc)	1.53	1.55	1.5	1.49	1.47	1.45
Specific Gravity (Apparent Density)	2.61	2.65	2.61	2.63	2.61	2.6
Mean Particle Diameter (mm)	1.25	0.883	0.708	0.489	0.338	0.238
Median Particle Diameter (mm)	1.24	0.87	0.699	0.483	0.334	0.234
Solubility (15% HCL 0.5Hr @ 150F)	0.8%	0.9%	0.6%	0.3%	0.3%	0.400%

For more information contact sales@silicaservicesinc.com

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 and NTP have determined that crystalline silica can cause lung 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 safety data sheet, containing safety information, is available and should be consulted before usage.

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Silica/Silica Containing

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