TECHNICAL DATA SHEET

Features & Benefits

After mining, the silica sand is washed and sorted. This quality is available moist or dried and can be supplied in bulk or bagged (dried sands only). This unique high purity natural silica sand is an excellent raw material for many industrial end uses.

Granulometric Data

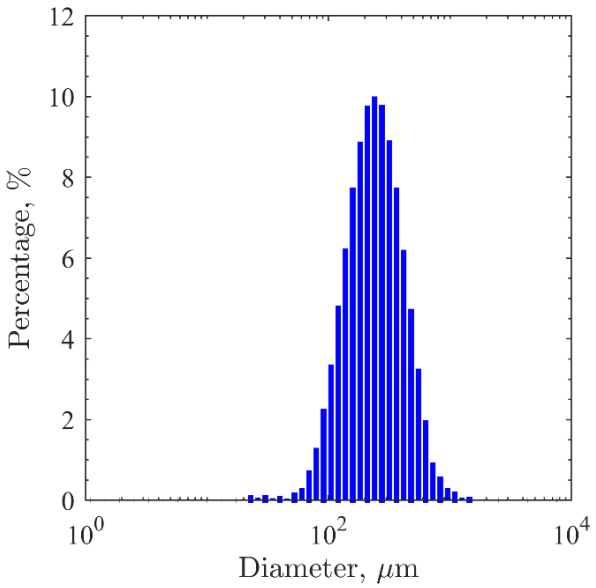
- Particle size distribution – sieving method

Mesh	*Particle Size*	*(%)*
# 025	710 µm	0.0000
# 030	600 µm	0.1000
# 035	500 µm	0.5000
# 045	355 µm	1.6000
# 050	300 µm	14.9000
# 070	212 µm	27.1000
# 100	150 µm	34.7000
# 140	106 µm	15.4000
# 200	75 µm	2.0000
Bottom	Bottom	0.7000

- Particle size distribution – optical diffraction method (source: NREL)

Particle size analysis	**Definition**	**Value**
d(0.1)	Particle diameter < 10%	110.48 ± 0.85 µm
d(0.5)	Particle diameter < 50% Median particle diameter	220.05 ± 2.08 µm
d(0.9)	Particle diameter <90%	438.33 ± 13.18 µm
d[3,2]	Suater diameter Surface weighted mean Useful in fields like catalysis, coatings, or adsoprtion	189.29 ± 3.06 µm
d[4,3]	DeBroukere diameter Volume weighted mean Useful for bulk properties like mass or volume	254.32 ± 5.96 µm

The particles mean diameter is 220 μm (0.20 mm) with a normal distribution.
< 10% of the particles are below 110 μm (0.11 mm)
< 10% of the particles are above 438 μm (0.44 mm)



Physical Chemical Characteristics

pH	7.0
Bulk density	1.400 g/cm^3
Loss on ignition 1000° C	0.07%

Chemical Analysis (%)

SiO_2	99.8700
Fe_2O_3	0.0014
Al_2O_3	0.0060
TiO_2	0.0040
K_2O	0.0040
CaO	0.0105
MgO	0.0060
Na_2O	0.0030

Preliminary typical values. These do not represent a specification.