

# Q-SIL (Nano) Quartz Silica Powder

## Nano silica, (SiO<sub>2</sub>) trace metals basis

Purities are available between 97% and 99%  
Super Pure fine Quartz= 5-50 nm  
Average particle size(TEM) : 10-20 nm

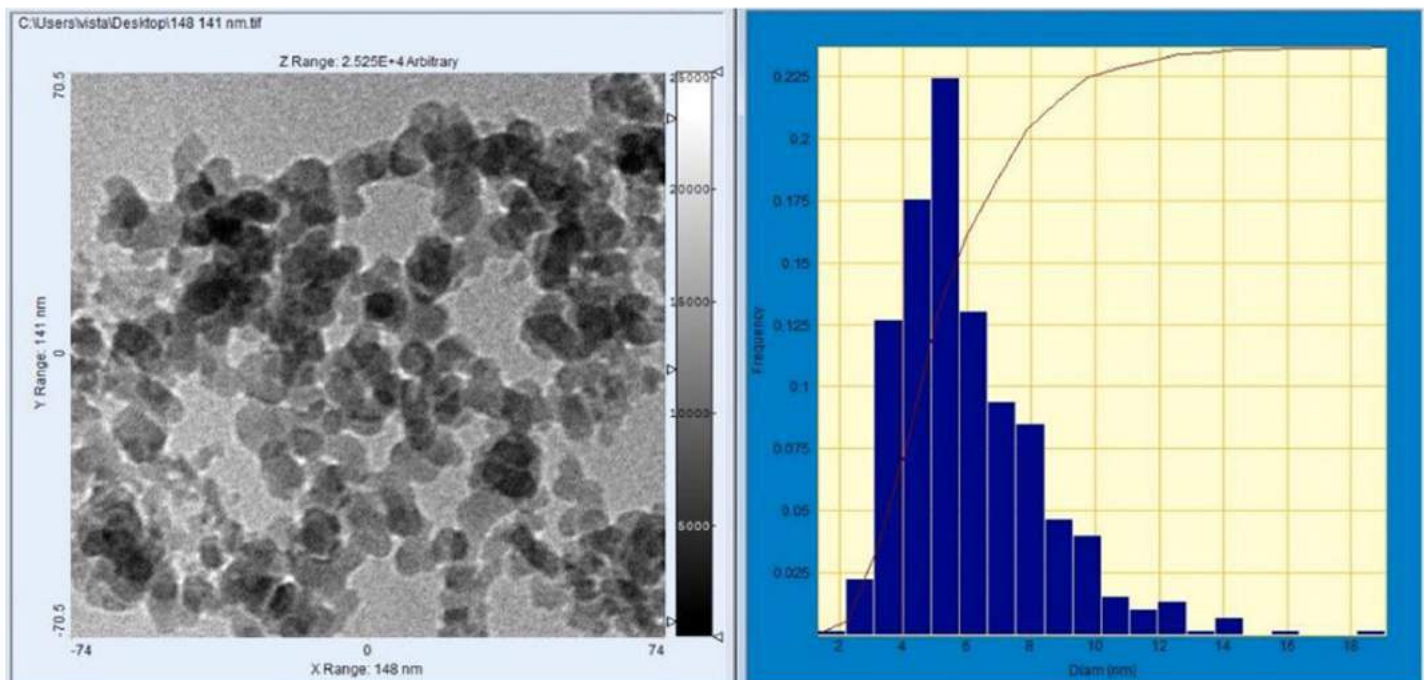
Quartz, most common of all minerals is composed of silicon dioxide, or silica, SiO<sub>2</sub>. It is an essential component of igneous and metamorphic rocks.

**Chemical Name: Silicon dioxide**

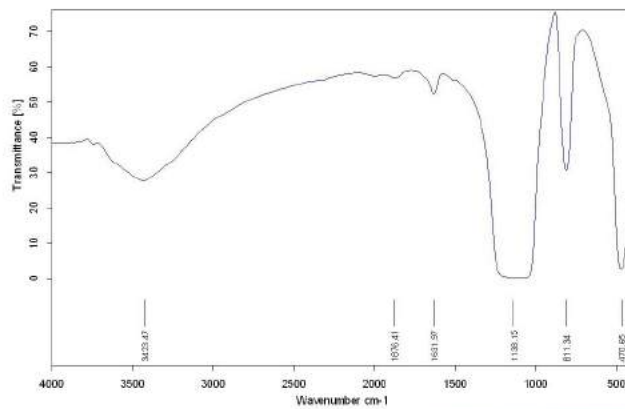
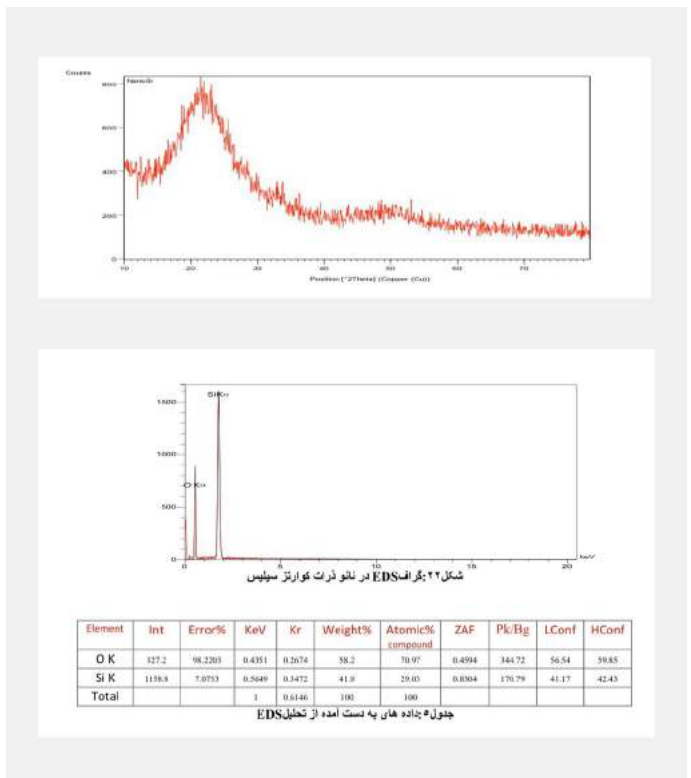
Synonyms: quartzite powder, natural quartz crystal, quartz powder, , silicic anhydride, SiO<sub>2</sub>, natural silica

Color	white
Odor	Odorless
Specific Gravity (g/cc)at 25 °C	2.20-2.65
Stability	Stable
Moisture at 105°C/3h	max 3%
PH 5% aq.	6-7
Average particle size	10-20 nm(TEM)
Residue on 325 mesh (wet sieving)	max 1%
SiO <sub>2</sub> CONTENT	min 97.5%
Iron content ppm	max 100
assay	97.7% trace metals basis
particle size	5-50 nm (TEM)
mp	>1600 °C (lit.)
bulk density	0.068 g/mL

## Analytical reports-TEM



## Analytical reports-Size distribution-EDS



## Analytical reports-Chemical analysis



Test Method: LW03	شماره: ۱۶۳۰۲	کد فرم: LF51-00
تاریخ تهیه گزارش: ۱۳۹۸/۰۷/۰۱	تاریخ انجام آزمایش: ۱۳۹۸/۰۷/۰۱	تاریخ دریافت نمونه: ۱۳۹۸/۰۶/۱۳

شماره صفحه: ۱ از ۱

متقاضی:

نتیجه آنالیز شیمیایی

Sample	SiO2	Al2O3	Fe2O3	CaO	Na2O	K2O	MgO
	%	%	%	%	%	%	%
Nano SiO2-6A	97.69	0.01	0.01	0.01	0.01	0.01	0.01
Nano SiO2-Sol.gel	96.81	0.01	0.01	0.01	0.01	0.01	0.01

Sample	TiO2	MnO	P2O5	L.O.I	S
	%	%	%	%	ppm
Nano SiO2-6A	0.001	0.001	0.001	2.18	27
Nano SiO2-Sol.gel	0.001	0.001	0.001	3.05	31

با تشکر  
کانساران بینالود

