Quanto nano

Working on the smallest things
with the biggest impact

NANO SILICON (Si)

Silicon (Si): This is a chemical element with the atomic number 14 on the periodic table. It's a metalloid, meaning it has properties of both metals and non-metals. Silicon is the second most abundant element in the earth's crust after oxygen. It is usually found in the form of silicon dioxide (silica) and silicates. Silicon is a primary component in many minerals and rocks and sand, and it's widely used in the electronics industry due to its good semiconductor properties.
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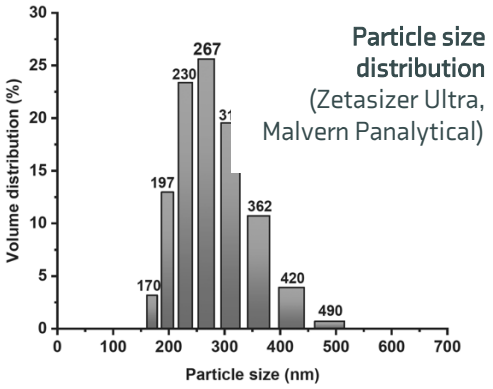
EXTENSIVE CHARACTERISATION DATA

To ensure uncompromised product quality, each particle batch is analysed and characterized using the latest quality control techniques including dynamic light scattering (DLS), Scanning Electron Microscopy (SEM), transmission electron microscopy (TEM) and Brunauer-Emmett-Teller (BET) analysis. A specific quality control certificate will accommodate every batch. Additional customer-specific characterization requirements can be agreed upon.

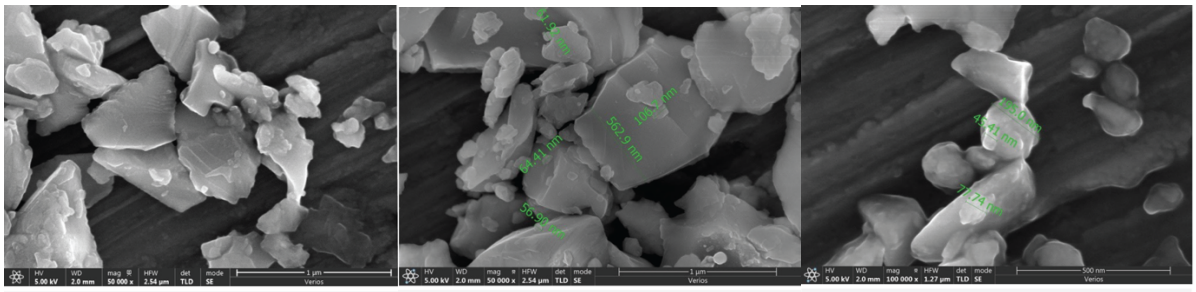
The below is just an example of many different types of **Nano Silicon** and materials we can produce for our customers, also much below that size.

MATERIAL CHARACTERISTICS

Chemical name	Silicon
Formula	Si
Molecular weight	28.09 g mol^{-1}
Physical state	Solid
Appearance (Form)	Powder
Appearance (Color)	Dark grey
Purity	99.9%
Particle size	~ 267 nm



Particle size distribution
(Zetasizer Ultra, Malvern Panalytical)



SEM image (Verios G4 XHR SEM) | SEM image (Verios G4 XHR SEM) | SEM image (Verios G4 XHR SEM)

CUSTOMER CENTRIC SERVICE

Our nanoparticle experts will address your technical questions and help you select the optimal nanomaterial for your application which gets produced for your application in our lab & production facility for your validation and subsequent series production.

APPLICATIONS

- Li-Ion Battery Technology
- Ceramics & Bricks
- Solar Panels & Cells
- Semiconductors
- Drug Delivery
- Foliar Application
- Etc.

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