

American Elements Silicon Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General Description Silicon (Si) Nanoparticles, nanodots or Nanopowder are spherical high surface area metal particles. Nanoscale Silicon Particles are typically 5-25 nanometers (nm) with specific surface area (SSA) in the 30 – 70 m²/g range and also available with an average particle size of 80 - 100 nm range with a specific surface area of approximately 5 - 10 m²/g. Nano Silicon Particles are also available in ultra high purity and high purity and carbon coated and dispersed forms. Applications for silicon nanocrystals include in luminescent display devices due to their broader excitation spectra, as building blocks for single-nanoparticle electronic devices, in micro and integrated semiconductors, in solar energy cells, for production of silicon nanotubes and in nanowire, nanofiber and in certain alloy applications. Further research is being done for their potential electrical, optical, imaging, and bioscience properties.

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http://www.lookpolymers.com/polymer_American-Elements-Silicon-Nanoparticles.php

Physical Properties	Metric	English	Comments
Density	2.33 g/cc	0.0842 lb/in ³	
Particle Size	0.0050 - 0.025 µm	0.0050 - 0.025 µm	
	0.080 - 0.10 µm	0.080 - 0.10 µm	
Specific Surface Area	5.0 - 10 m ² /g	5.0 - 10 m ² /g	
	30 - 70 m ² /g	30 - 70 m ² /g	
Molecular Weight	28.08 g/mol	28.08 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1414 °C	2577 °F	
Boiling Point	2900 °C	5250 °F	

Descriptive Properties	Value	Comments
Appearance	Silvery	

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