

Silicon nanopowder

Properties and features:

This product possesses high purity, small and uniform particle diameters, large specific surface area, high surface activity, low loose loading density. Silicon (Si) Nanopowder is an exciting and relatively new material with the potential to revolutionize the electro-optic semiconductor, which means it is a highly inefficient source of light.

Applications:

Silicon nanopowder finds potential applications in solid state lighting, lasers, microelectronics, biological tags, etc. It may soon reside in a technically disruptive role in biological applications as it is non-toxic to the human body, in contrast to other related materials. Its narrow band photoluminescence can be tuned throughout the visible spectrum.

- High refractive-index nanocomposites
- Light emitters
- Nonvolatile memory devices

Main parameters:

This product is produced by plasma arc vapor synthesis process.

Purity	> 99.0%
Oxygen content	< 1%
Average particle size	< 50nm
Specific surface area	> 80m ² /g
Apparent density	0.08g/cm ³
Morphology	spherical
Color	Brown yellow