

American Elements Nickel Titanium Nanoparticles

Category : Metal , Nonferrous Metal

Material Notes:

General Description Nickel Titanium (NiTi) Nanoparticles, nanodots or nanopowder are black spherical high surface area alloy particles. Nanoscale Nickel Titanium Particles are typically 10 - 40 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m²/g range and also available in with an average particle size of 50 - 100 nm range with a specific surface area of approximately 5 - 10 m²/g. Nano Nickel Titanium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Applications for nickel titanium nanocrystals include numerous catalytic functions such as in the anode of solid oxide fuel cells (SOFC) or in the conductive electrolytic layer of proton exchange membrane (PEM) fuel cells, in replacement of platinum. Also, substituting all or a portion of the platinum with nickel titanium nano particles in automotive catalytic converters would significantly reduce their cost and in coatings, plastics, nanowire, nanofiber and textiles and in certain alloy and catalyst applications. Further research is being done for their potential electrical, dielectric, magnetic, optical, imaging, biomedical and bioscience properties.

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Physical Properties	Metric	English	Comments
Particle Size	0.010 - 0.040 µm	0.010 - 0.040 µm	
	0.050 - 0.10 µm	0.050 - 0.10 µm	
Specific Surface Area	5.0 - 10 m ² /g	5.0 - 10 m ² /g	
	30 - 50 m ² /g	30 - 50 m ² /g	

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