

American Elements Aluminum Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General DescriptionAluminum (Al) Nanoparticles, nanodots or Nanopowder are black spherical high surface area metal particles.

Nanoscale Aluminum Particles are typically 10-30 nanometers (nm) with specific surface area (SSA) in the 30 – 70 m²/g range and also available in with an average particle size of 70 -100 nm range with a specific surface area of approximately 5 - 10 m²/g. Nano Aluminum Particles are also available in passivated and in Ultra high purity and high purity and carbon coated and dispersed forms. Applications for aluminum nanocrystals include as a support to create high surface area catalysts, in anti-microbial, anti-biotic and anti-fungal (fungicide) agents when incorporated in coatings, plastics and textiles, and in super strong metals and alloys, such as nano-crystalline aluminium alloys for space applications as alternatives for titanium in components of liquid rocket engines (e.g. lines and turbopumps), since they are lighter and less susceptible to embrittlement by hydrogen, and in nanowire, nanofiber and in certain other alloy and catalyst applications. Further research is being done for their potential electrical, dielectric, magnetic, optical, imaging, catalytic, biomedical and bioscience properties.

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

Physical Properties	Metric	English	Comments
Density	2.70 g/cc	0.0975 lb/in ³	
Particle Size	0.010 - 0.030 µm	0.010 - 0.030 µm	
	0.070 - 0.10 µm	0.070 - 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	26.98 g/mol	26.98 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	660.32 °C	1220.6 °F	
Boiling Point	2519 °C	4566 °F	

Descriptive Properties	Value	Comments
Appearance	Black	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China