

## American Elements Zirconium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

### Material Notes:

**General Description** Zirconium (Zr) Nanoparticles, nanodots or Nanopowder are black spherical high surface area metal particles.

Nanoscale Zirconium Particles are typically 10-40 nanometers (nm) with specific surface area (SSA) in the 30 – 80 m<sup>2</sup>/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 m<sup>2</sup>/g. Nano Zirconium Particles are also available in passivated and in Ultra high purity and high purity and carbon coated and dispersed forms. Applications for zirconium nanocrystals include nano-crystalline Zirconium 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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_American-Elements-Zirconium-Nanoparticles.php](http://www.lookpolymers.com/polymer_American-Elements-Zirconium-Nanoparticles.php)

Physical Properties	Metric	English	Comments
Density	6.506 g/cc	0.2350 lb/in <sup>3</sup>	
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 <sup>2</sup> /g	5.0 - 10 m <sup>2</sup> /g	
	30 - 80 m <sup>2</sup> /g	30 - 80 m <sup>2</sup> /g	
Molecular Weight	91.22 g/mol	91.22 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1852 °C	3366 °F	
Boiling Point	3580 °C	6480 °F	

Descriptive Properties	Value	Comments
Appearance	Black	

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