

## American Elements Erbium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

**Material Notes:**

General Description Erbium (Er) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Erbium Particles are typically 10 - 80 nanometers (nm) with specific surface area (SSA) in the 30 – 60 m<sup>2</sup>/g range. Nano Erbium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for Erbium nanocrystals has focused on use as a dopant in silicon and silicon matrix, lanthanum fluoride, glass and optical fibers, in phosphors, nanophosphors and doped phosphorous nanoparticles and for their potential electrical, optical, imaging, biomedical and bioscience properties and for use in coatings, plastics, nanowire, and in alloy and catalyst applications.

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

Physical Properties	Metric	English	Comments
Density	9.066 g/cc	0.3275 lb/in <sup>3</sup>	
Particle Size	0.010 - 0.080 µm	0.010 - 0.080 µm	
Specific Surface Area	30 - 60 m <sup>2</sup> /g	30 - 60 m <sup>2</sup> /g	
Molecular Weight	382.56 g/mol	382.56 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1497 °C	2727 °F	
Boiling Point	2868 °C	5194 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Stable in the air	

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