

## American Elements Lutetium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

**Material Notes:**

General Description Lutetium (Lu) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Lutetium Particles are typically 10 - 100 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m<sup>2</sup>/g range. Nano Lutetium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for Lutetium nanocrystals has focused on use as a dopant in glass, laser optics and optical fibers, in phosphors, nanophosphors and doped phosphorous nanoparticles and for their potential electrical, dielectric, magnetic, optical, imaging, catalytic, biomedical and bioscience properties and for use in coatings, plastics, nanowire, and in alloy and catalyst applications.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	9.841 g/cc	0.3555 lb/in <sup>3</sup>	
Particle Size	0.010 - 0.10 µm	0.010 - 0.10 µm	
Specific Surface Area	30 - 50 m <sup>2</sup> /g	30 - 50 m <sup>2</sup> /g	
Molecular Weight	174.97 g/mol	174.97 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1652 °C	3006 °F	
Boiling Point	3402 °C	6156 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Fairly stable in air	

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