

American Elements Ruthenium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General DescriptionRuthenium (Ru) Nanoparticles, nanodots or nanopowder are brown spherical high surface area metal particles.

Nanoscale Ruthenium Particles are typically 20 - 100 nanometers (nm) with specific surface area (SSA) in the 1 – 3 m²/g range. Nano Ruthenium Particles are also available in Ultra high purity and high purity and coated and dispersed forms. Applications for Ruthenium nanocrystals include for use in electrochemical capacitors, in a nucleation layer of palladium and ruthenium nanoparticles in-between the copper pad surface to create an electrical connection that has superior diffusion barrier and adhesion properties, as a hydrogenation catalyst and numerous other uses in catalysts, in polymer membranes to create Active Polymer Membranes and in other coatings, plastics, nanofiber and textiles and in nanowire and other catalysis applications.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	12.37 g/cc	0.4469 lb/in ³	
Particle Size	0.020 - 0.10 µm	0.020 - 0.10 µm	
Specific Surface Area	1.0 - 3.0 m ² /g	1.0 - 3.0 m ² /g	
Molecular Weight	101.07 g/mol	101.07 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	2334 °C	4233 °F	
Boiling Point	4150 °C	7500 °F	

Descriptive Properties	Value	Comments
Appearance	Brown	

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