

## American Elements Antimony Tin Oxide Nanoparticles

Category : Ceramic , Oxide

### Material Notes:

**General Description**Antimony Tin Oxide (ATO) Nanoparticles, nanopowder, nanodots or nanocrystals are spherical or faceted high surface area nanocrystalline alloy particles with magnetic properties. Nanoscale Antimony Tin Oxide (ATO) Particles are typically 20-40 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m<sup>2</sup>/g range and also available in with an average particle size of 100 nm range with a specific surface area of approximately 7 m<sup>2</sup>/g. Nano Antimony Tin Oxide (ATO) Particles are also available in ultra high purity and high purity and coated and dispersed forms. Applications for Antimony Tin Oxide Nanocrystals include in high conductivity uses, as an antistatic additive in coatings, plastics, nanowire, fiber and textiles and in certain alloy and catalyst applications, in electrochromic or electro-optics and magnetic machines and micro-equipment due to their high conductivity. Further research is being done for their potential electrical, dielectric, magnetic, optical, imaging, catalytic, bio-medical and bioscience properties.

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

Physical Properties	Metric	English	Comments
Particle Size	0.020 - 0.040 $\mu\text{m}$	0.020 - 0.040 $\mu\text{m}$	
	0.10 $\mu\text{m}$	0.10 $\mu\text{m}$	
Specific Surface Area	7.0 m <sup>2</sup> /g	7.0 m <sup>2</sup> /g	
	30 - 50 m <sup>2</sup> /g	30 - 50 m <sup>2</sup> /g	

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