Ultra-Long Silver NanoWires

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Attributes
Well-dispersed ultra-long Silver NanoWires produced by Nanotrons Corporation combine the high intrinsic electrical and thermal conductivity, ductility, tensile strength and environmental stability of silver with the benefits of an ultra-high aspect ratio nanomaterial, i.e., a low concentration percolation. Silver NanoWires can find great applications for printed inks, adhesives, solar, display, and anti-microbial as listed below.

Potential Applications

Optical
Solar (thin film) Medical imaging Optical limiters
Solar (crystalline silicon) Raman spectroscopy Surface plasmons

Conductive
High-intensity LEDs Computer boards LCDs
Touchscreen displays Conductive adhesives Sensors

Anti-microbial
Bandages Air & water purification Food preservation
Films Sterile equipment Clothing

Chemical & Thermal
Catalysts Pastes Chemical vapor sensors
Sensors Polymers Thermal adhesives

Technical Data
Diameter: 80 nm ± 20 nm
Length: 30-200 microns
Available Format: Liquid dispersion
Available Dispersing Liquids: IPA, Ethanol or Water
Available Concentration: 1 wt%, 2 wt%, 5 wt% and higher

Coating Test
Transparent conductive coatings with sheet resistance < 10 Ohm/sq and transmission > 85% were cast using these Silver NanoWire suspensions. Nanotrons Chemists will closely work with you to meet your specific needs. Please contact us to discuss your applications and acquire further information.

About Nanotrons Corp.
Nanotrons Corporation (NTC), based in Woburn MA, was formed in 2009 as a spin-out of Agiltron Inc., a technology development company. NTC’s vision is to leverage its proprietary advanced nano-engineering technologies to develop solutions to various challenges/crises being confronted by human in the 21 century such as energy, water, environment, and terrorism. In addition to Silver NanoWires, Nanotrons is currently selling its NanoPaint™ Conformal Transparent Conductive Coating and Antifog Coating services. Recently, Nanotrons complete the first sale of an affordable, easy-to-use, and customizable equipment for nanomaterials formed by layer-by-layer deposition and targeted to the university and industrial research market. A next generation product is scheduled to be launched in the third quarter of 2011.