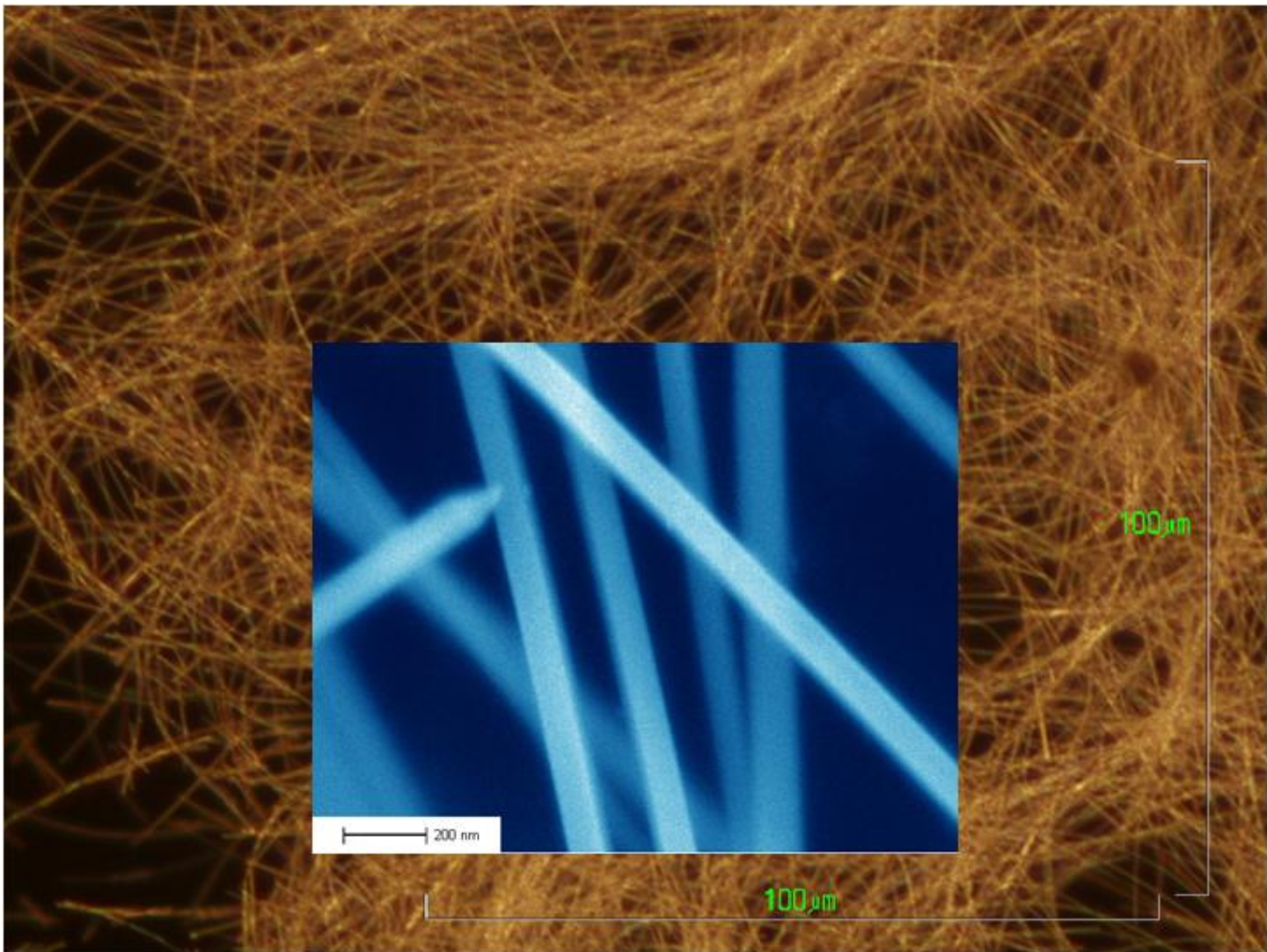


Ultra-Long Silver NanoWires



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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.