

PRODUCT BRIEF

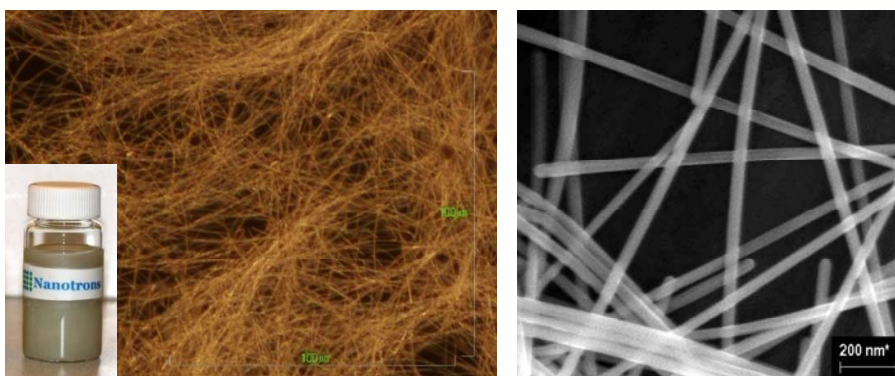
Ultra-Long Silver NanoWires

Advantages

- Ultra-high aspect ratio
- High purity
- Well-dispersed
- High electrical and thermal conductivity
- Passivated
- High ductility and tensile strength

Attributes

Well-dispersed passivated ultra-long Silver NanoWires (AgNW) produced by Nanotrons Corporation combine the high intrinsic electrical and thermal conductivity, ductility, tensile strength and environmental stability of silver with the low concentration percolation benefit of this ultra-high aspect ratio nanomaterial. Silver NanoWires can find great applications for printed inks, adhesives, solar, display, and anti-microbial.



Nanotrons Corporation
15 Presidential Way
Woburn, MA 01801-1040
Ph: 781-935-1200
Fax: 781-935-2040
www.nanotrons.com

Technical Sales:
781-935-1200 x 114
kwang@agiltron.com

Technical Data

Diameter	40nm ± 10nm, 80nm ± 10nm
Length	30-200 microns
Format	Liquid dispersion
Available Dispersing Liquids	IPA, Ethanol, Water
Typical Concentration	1 wt%, 2 wt%, 5 wt% and higher

Case Study: AgNW Based Transparent Conductive Coatings

Transparent conductive coatings of these Silver NanoWires have sheet resistance < 10 Ohm/sq and transmission > 85%. Nanotrons works closely with our customers to meet their specific needs. Please contact us to discuss your applications.

Applications

<ul style="list-style-type: none"> • Optical <ul style="list-style-type: none"> Solar cells electrode and grid Medical imaging Optical limiters Raman spectroscopy Surface plasmons 	<ul style="list-style-type: none"> • Anti-microbial <ul style="list-style-type: none"> Bandages Air & water purification Food preservation Films Sterile equipment Clothing
<ul style="list-style-type: none"> • Conductive <ul style="list-style-type: none"> High-intensity LEDs Computer boards LCDs Touchscreen displays Conductive adhesives Sensors 	<ul style="list-style-type: none"> • Chemical & Thermal <ul style="list-style-type: none"> Catalysts Pastes Chemical vapor sensors Sensors Polymers Thermal adhesives

About Nanotrons Corp

Nanotrons Corporation (NTC), based in Woburn MA, was formed in 2009 as a subsidiary of Agiltron Inc. to focus on nanomaterials business. NTC's vision is to leverage its proprietary advanced nano-engineering technologies to develop solutions to various challenges in the fields of energy, water, environment, and security. Nanotrons' products include silver nanowires, graphene nanosheets, the SPALAS™ spray assisted layer-by-layer self assembly coating system, and NanoPaint™ Conformal Transparent Conductive Coating and Antifog Coating services.

Ordering Information

AgNW-	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	g	100 mg	10 mg	mg
	Diameter	Solvent	Concentration	Solid Weight (≥300mg)			
	40=40nm 80=80nm	I=IPA E=ethanol W=water	1=1wt% 2=2wt% 5=5wt%				