

Product Name	Model	Diameter	Length	Purity	Appearance	Optional Solvent	Optional Concentration
Silver Nanowires (AgNW)	CSG-NW-S15	15±3nm	15~18µm	>99.5%	Dark Gary / Light gray suspension (Dispersed in solvent)	Water/Ethanol/IPA/ +Customized	5mg/mL,10mg/mL +Customized (5mg/mL is recommended due to the long wire length)
	CSG-NW-S20	20±3nm	20~25µm				
	CSG-NW-S25	25±3nm	25~30µm				
	CSG-NW-S30	30±5nm	25~30µm				
	CSG-NW-S40	40±5nm	25~35µm				
	CSG-NW-S50	50±5nm	25~35µm				
	CSG-NW-S60	60±10nm	35~40µm				
	CSG-NW-S70	70±10nm	35~45µm				
CSG-NW-S80	80±10nm	35~50µm					
Product Name	Model	Diameter	Length	Purity	Appearance	Optional Solvent	Optional Concentration
SHORT Silver Nanowires for Inkjet Printing	CSG-SNW-T30	30~40nm	2~5µm	>99.5%	Light gray suspension (Dispersed in solvent)	Water/Ethanol/IPA/ +Customized	5mg/mL,10mg/mL, 20mg/mL... +Customized
	CSG-SNW-T50	50~60nm	2~5µm				
	CSG-SNW-T70	70~80nm	2~5µm				
Product Name	Model	Coating Process		Product Features		Highlight	Applications
AgNW based Coating Solution	CSG-R2R-X202	Slot die coating / Micro gravure coating / Spin coating / bar coating and so on		1. Water-based and eco-friendly 2. Strong adhesion on substrates 3. High process compatibility 4. Efficient film-forming		1. Matched special UV curing over-coating ink can greatly improve the film stability and reliability. 2. Customized products	For coating the AgNW transparent conductive film /electrode
Product Name	Model	Sheet Resistance (Ω/□)	Uniformity (Ω/□)	Transmittance (%)		Haze (%)	b* value (-)
AgNW Transparent Conductive Film	CSG-FM-R10	10	10±1	≥88		≤3.0	≤3.5
	CSG-FM-R20	20	20±2	≥86		≤1.3	≤1.3
	CSG-FM-R30	30	30±3	≥88		≤1.2	≤1.2
	CSG-FM-R45	45	45±5	≥89		≤1.0	≤1.2
	CSG-FM-R70	70	70±5	≥91		≤0.8	≤1.0
	CSG-FM-R100	100	100±10	≥92		≤0.7	≤0.9

Product Name	Model	Thickness	Edge Length / Lateral Diameter	Purity	Appearance	Optional Solvent	Optional Concentration
Silver Nanoflakes	CSG-SNF-TE25	25~30nm	500~800nm	>99.5%	Blue/deep blue suspension	Water/Ethanol/IPA/Methyl alcohol +Customized	5mg/ml ,10mg/ml , 20mg/ml, 30mg/ml...+Customized
	CSG-SNF-FR12	12~20nm	100~300nm		Blue/deep blue suspension		
	CSG-SNF-TD25	25~30nm	50~300nm		Blue/deep blue suspension		
Product Name	Model	Sheet Resistance (Ω/\square)	Conductive Layer Light Transmittance (%)		Product Features	Applications	Ink Utilization Rate (%)
Screen Printing Transparent Conductive Ink	CSG-SPI-90	50~150	95~98		1. Eexcellent Conductivity 2. Good bending resistance 3. Strong adhesion	Capacitor touch electrode	10% to 20% higher than other materials
	CSG-SPI-92	30~70	94~96			Capacitor touch electrode, a transparent lead with a line width $\geq 3\text{mm}$	
	CSG-SPI-95	15~40	91~95			Transparent conductive circuits , Transparent heating electrode	
Product Name	Model	Diameter	Type	Purity	Appearance	Optional Solvent	Optional Concentration
Silver Nanoparticles	CSG-NP-S30	30 \pm 5nm	solution/paste	>99.5%	Light yellow suspension	Water/Ethanol/IPA+Customized	5~99mg/mL +Customized
	CSG-NP-S50	50 \pm 5nm	solution/paste		Yellow suspension	Water/Ethanol/IPA+Customized	
	CSG-NP-S100	100 \pm 10nm	solution/paste		Grayish yellow suspension	Water/Ethanol/IPA+Customized	
	CSG-NP-S150	150 \pm 10nm	solution/paste		Grayish yellow suspension	Water/Ethanol/IPA+Customized	
Product Name	Model	Diameter	Length-Diameter Ratio	LSPR Coverage	Shape Monodispersity	CTAB Content	Remarks
Gold NanoRod	CSG-NR-G6/7/8/9	6/7/8/9nm	3.6~7	750~1130nm	NanoRods >98%	< 0.1%	1. Most products are delivered in a volume of 10mL, 50mL, 100mL. 2.Optional optical density (O.D.) =2, 2.5,5, 10, 50 3. Solvent : DI Water 4. Purity : >99.9%
	CSG-NR-G10/20/40	10/20/40nm	1.8~5.2	600~850nm	NanoRods >98%	< 0.1%	
Product Name	Model	Diameter	Length	Purity	Appearance	Optional Solvent	Optional Concentration
Gold Nanowires	CSG-NW-G3	2~3nm	0.5-10um	>99.9%	Dark brown suspension (Dispersed in solvent)	N-hexane, Toluene ,DI Water +Customized	5mg/mL,10mg/mL , 20mg/mL...+Customized
	CSG-NW-G5	5~7nm	3-10um	>99.9%	Dark brown suspension (Dispersed in solvent)	N-hexane, Toluene ,DI Water +Customized	5mg/mL,10mg/mL , 20mg/mL...+Customized

Product Name	Model	Curing Conditions	Applicable Process	Product Features	Applications	Storage Conditions & Shelf Life
High Temp. Silver Paste (For 5G Products etc.)	CSG-CRF-N70	Drying Condition : 150°C*5min Presintering: 600°C*10min Sintering: 800°C*10min	Dipping coating	Eexcellent adhesion, good conductivity, excellent dipping coating suitable for all kinds of irregular products.	Specially designed for high frequency microwave ceramic filters	Below 5°C / 6months Below 25°C / 3months
	CSG-EZTE-CF95	Predrying:150°C*10min (IR drying tunnel) Sintering: 850°C (TOP)*10min	Screen Printing	High performance sintered type silver paste, lead free and without dicarboxylic acid	Mainly used in ceramic base filter products	5~30°C /12months
	CSG-XST-MPA88	90°C×90min (Ordinary Oven)	Screen Printing	Low resistance, slow drying.Good printability, conductivity, oxidation resistance, hardness, adhesion and strong wear resistance. Suitable for screen printing, pad printing, coating and other processes.	Mainly used in the fields of 5G mobile phone antenna, radio frequency antenna, wear-resistant pad printing layer and other flexible printed circuits.	Below 5°C / 3months
Product Name	Model	Curing Conditions	Applicable Process	Product Features	Applications	Storage Conditions & Shelf Life
Low Temp. Silver Paste (For TP Products etc.)	CSG-TPI-F8060	80°C*60Min (Ordinary Oven)	Screen Printing	Superior adhesion, good conductivity, excellent printing performance	Suitable for PET, plastic, metal, Fabric and other substrates	Below 25°C / 3months
	CSG-LSP-CT9060	90°C*60min /120°C*30min	Pad Printing (Suggested twice)	Excellent adhesion & good conductivity	Suitable for PET, metal, substrates	Below 5°C / 3months
	CSG-TPI-LT10560	105°C*60min (Ordinary Oven)	Screen Printing & Laser etching	Excellent adhesion, good conductivity, Superior printing performance	Suitable for ITO & AgNW films, Specialized for the laser etching technology of capacitive touch screen production , lithography limit is	Below 25°C / 3months
	CSG-LSP-CT14010	140°C*10min (Ordinary Oven)	Screen Printing	Rapid curing, have excellent conductivity and adhesion on ITO film and excellent printing performance.	Specially used in the production of capacitive touch screen laser etching process, lithography limit is 20um.	5~15°C/ 3months
	CSG-LSP-CT14060	ITO conductive film: 140°C*60min, ITO conductive glass: 150°C*60min, More than 130 °C (Recommended)	Screen Printing & Laser etching	Excellent adhesion, good conductivity and excellent printing performance.	Specifically designed for capacitive touch screens with conductive silver paste in ITO film and glass	Below 25°C / 3months

Product Name	Model	Curing Conditions		Component	Product Features	Applications	Storage Conditions & Shelf Life
Optical Epoxy Adhesive	CSG-OPT-301 (Benchmark : EMI 3410VM)	UV or visible light curing and heat curing (UV or visible light at 320~380nm, 110-120°C @80min)		Single component	High purity, maximum ion content is 10ppm. After curing, it has ultra-low shrinkage rate and thermal expansion coefficient and excellent thermal cycling performance.	It is an ideal binder for fixing and aligning optical devices.	Store below -5°C, -40°C/6months
	CSG-OPT-3101AB (Benchmark: EPO-353ND)	Heat curing: 110°C/30min		Two-components (A:B=10:1)	High temperature resistance epoxy adhesive, suitable for different sizing methods, such as screen printing, pad printing, automatic dispensing machine and manual dispensing, etc.	Widely used in semiconductor, optical fiber devices, hybrid circuits, electronic assembly and medical devices and other fields.	25°C/ 3months
	CSG-OPT-350 (Benchmark : EMI 10350)	Heat curing: 110°C/30min		Single component	Low viscosity , slightly transparent ,strong bonding	Semiconductor devices, electronic assembly, medical equipments, optical fiber devices, etc	-20°C/3months
Product Name	Model	Core	Shell	Appearance	Particle size distribution	Electrical properties	Product Features
Core-shell Structural Materials	CSG-CM-P5	Polymer	Nickel	Light grey	D10:5µm, D50:7µm, D90:11µm	Resistivity: 5mΩ·cm, Surface resistance: 12mΩ/sq	<p>1. High conductivity, light weight, medium particle size dispersion.</p> <p>2. It is generally used in the fields of conductive adhesives, conductive washers and conductive fillers.</p>
	CSG-CM-P10	Polymer	Nickel		D10:9µm, D50:12µm,D90:16µm		
	CSG-CM-P15	Polymer	Nickel		D10:10µm, D50:6µm, D90:25µm		
	CSG-CM-P20	Polymer	Nickel		D10:14µm, D50:20µm, D90:28µm		
	CSG-CM-P40	Polymer	Nickel		D10:14µm, D50:20µm, D90:35µm		
	CSG-CM-PA10	Polymer	Silver		D10:8µm, D50:13µm, D90:20µm		
	CSG-CM-PM8	Polymer	Nickel	D10:7µm, D50:9µm, D90:11µm			
	CSG-CM-PF10	polyacrylate	Nickel		Diameter: 10µm, Length: 200µm, Length-diameter ratio: 20		
	CSG-CM-G10	Graphene nanoflakes	Nickel		D50:15 µm (typical)		
	CSG-CM-G15	Graphene nanoflakes	Nickel		D50:15 µm (typical)		

Product Name	Model	Barrier Film Thickness (µm)	QD Layer Thickness (µm)	Total Thickness (µm)	Transmittance (%)	Haze (%)	Water Vapor Transmission Rate (WVTR) & Oxygen Transmission Rate (OTR)
Quantum Dots Film (CdSe QDs)	CSG-QDF-T155	55±3	50±2	155±5	91±2	98±2	10E-2 (g/m ² x24h) 10E-2 (ml/m ² x24h)
	CSG-QDF-T210	65±8	80±4	210±20	76±2	57±3	
	CSG-QDF-T330	120±8	90±5	330±20	88±2	97±2	

COATING SUISSE Ltd.

Tel. +41 (0) 61 501 80 86

Mobi .+41 (0) 76 675 1949

www.coating-suisse.com

www.heating-paint.com