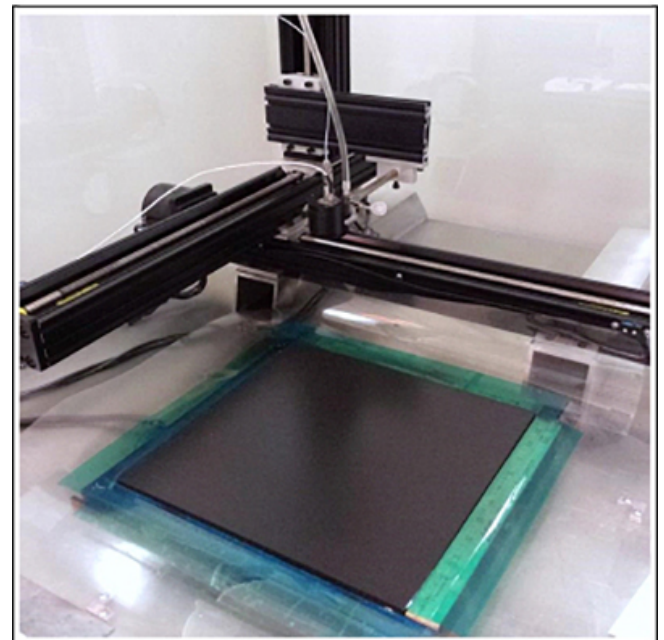


# AC100

## Aqueous Transparent Conductive Ink for Spray Coating

AC100 is an aqueous carbon nanotube (CNT) ink engineered for spray coating on a wide range of plastic films. For optimum transparent conductor performance, rinsing with deionized water to remove surfactant and top-coating with a polymer such as Nafion® is recommended following AC100 deposition.

Property	AC100
Ink Appearance	Black Liquid
Ink Form	Aqueous Dispersion
CNT Type	CoMoCat SW-CNT
Surfactant	Sodium Dodecyl Sulfate (SDS)
CNT Concentration	0.2 g/l
Surfactant Loading	1 wt%
Density	1.0 g/l
Viscosity (mPa s) @ sheer rate $10 \text{ s}^{-1}$	1.0
pH	8.2



### Film Attributes:

- Neutral Color
- Low Haze
- Flexible
- Durable
- Stretchable

### Let us help you!

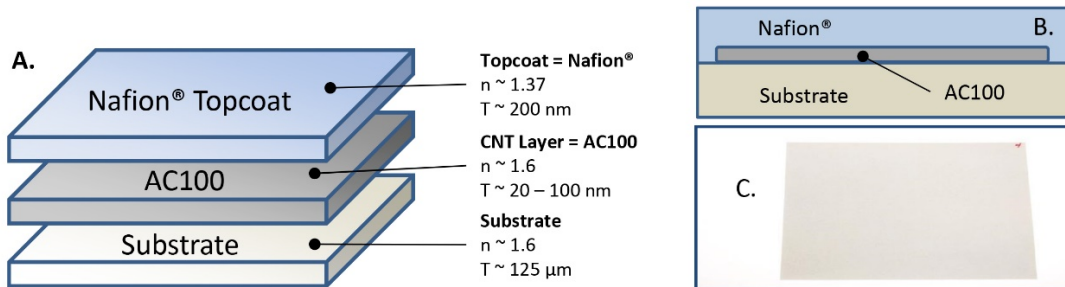
The material scientists and engineers in CHASM's Application Development Center are available to help you integrate AC100 into your application.



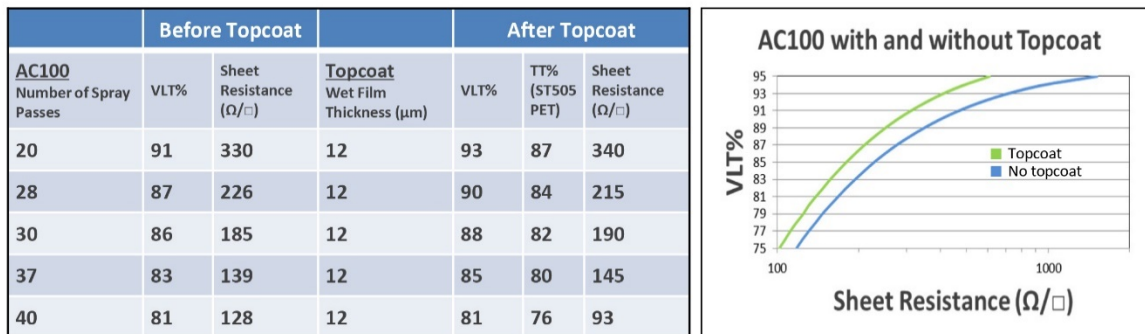
# AC100

## TCF Performance

Following deposition of AC100, rinsing with deionized water to remove surfactant and application of anti-reflective Nafion® topcoat are recommended.



Nafion topcoat improves sheet resistance and enhances visual light transmittance (VLT%). (See corresponding AC100 Application Note for more information on topcoat deposition.)



Topcoated films exhibit neutral color and low haze at VLT levels between 70-95%, and beyond.

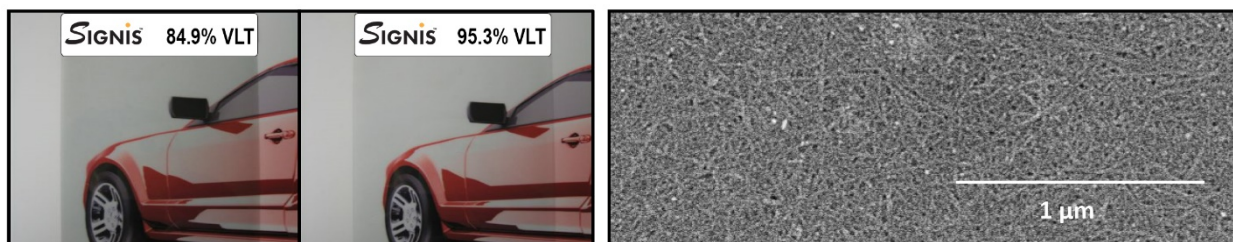


Figure 2. AC200 coated on PET substrate at 85% VLT (left) and 95% VLT (right).

Figure 3. SEM scan of AC200 CNT network on PET substrate at areal density of  $\sim 10 \text{ mg/m}^2$ .

Applications Engineers are available to provide additional data and technical support to help you integrate Signis CNTs into your application. Email [sales@chasmtek](mailto:sales@chasmtek) to request additional information.

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