



# DATA SHEET NYACOL® CTO-W

## Colloidal Performance Materials

### NYACOL® CTO-W

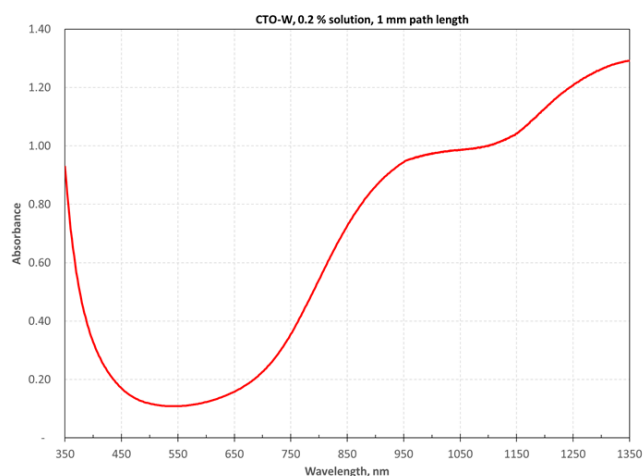
### Cesium-Doped Tungsten Oxide

NYACOL CTO-W is a unique dispersion of doped tungsten oxide. The product is a 80 nm dispersion of doped tungsten oxide in water and is non-settling. The product provides IR absorbance with a high degree of transmission in the visible range. Compared to Nyacol's ITO or ATO dispersions, CTO-W provides IR blocking in the 700-900 nm range.

The product is intended for use in coatings requiring high transparency and low haze, and as an additive to systems requiring improved IR absorption.

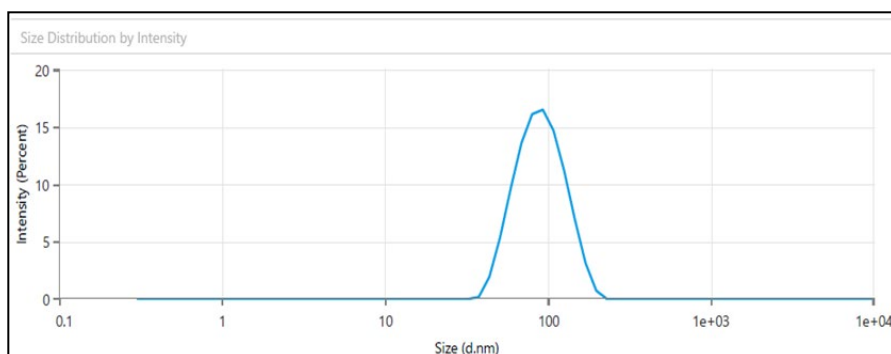
#### TYPICAL PROPERTIES:

Appearance:	Deep blue liquid
Carrier:	Water
Solids, %:	10
HPPS Z <sub>avg</sub> particle size, nm:	80
pH:	8
Viscosity, cP:	4



OPTICAL CURVE

#### TYPICAL PSD BY MALVERN HPPS:



#### FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER

Nyacol Nano Technologies, Inc.  
Megunko Road  
P.O. Box 349  
Ashland, MA 01721-0349 U.S.A.

Telephone: 508-881-2220  
Toll-Free: 800-438-7657  
Fax: 508-881-1855  
Internet: [www.nyacol.com](http://www.nyacol.com)

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