



Data Sheet  
NYACOL TiSol B Series

## Colloidal Titanium Dioxide

### NYACOL® TiSol B Series

#### SUMMARY

NYACOL TiSol B Series is a new development in colloidal TiO<sub>2</sub>. TiSol B Series products are alkaline dispersions of TiO<sub>2</sub> in water and are supplied at pH 10 and are negatively charged.

The dispersed mean size by DLS is controllable from 30 nm to 200 nm. The products are anatase in crystal phase and are strong UV absorbers and are highly photocatalytic. The products can be coated with hydrated silica to passivate the surface for reduced photocatalytic activity with no change in dispersed size or appearance. For applications requiring a powder, the products can be spray dried.

All of the TiSol B Series products are high purity, except when SiO<sub>2</sub> is used for passivation purposes.

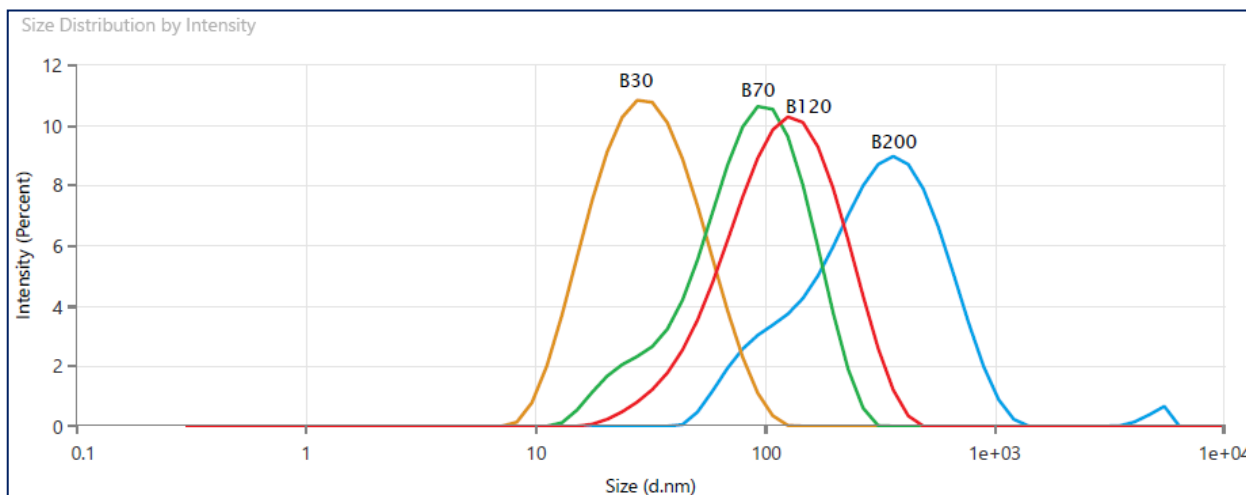
#### TYPICAL PROPERTIES

	TiSol B30	TiSol B70	TiSol B120	TiSol B200
Titanium Dioxide, wt. %:	20	20	20	20
Particle Diameter, nm:	30	70	120	200
pH:	10	10	10	10
Specific Gravity:	1.15	1.15	1.15	1.15
Viscosity, cP:	5 - 25	5 - 25	5 - 25	5 - 25
Crystal structure:	>80% anatase	>80% anatase	>80% anatase	>80% anatase
Appearance:	Translucent	Slightly Translucent	Milky	Milky

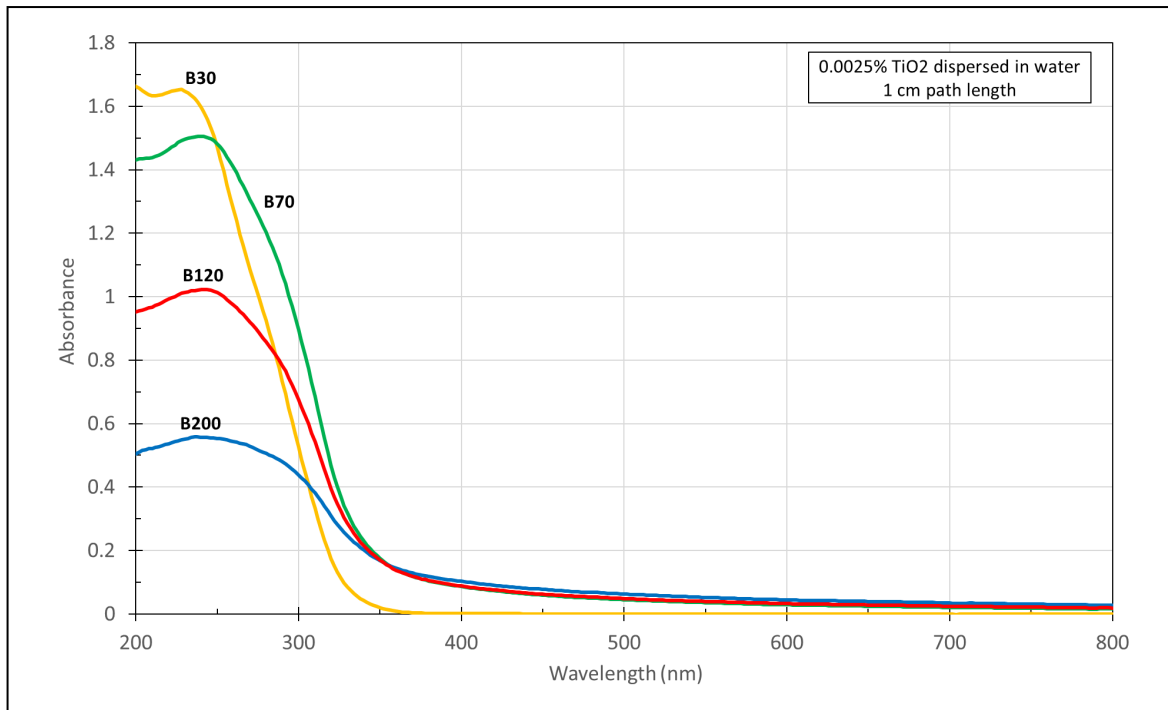
#### METALS – LEVELS

	TiSol B Series
As, Bi, Fe, Hf, Nb, P, Sb, Se, Si, Sn, Ta, W	<20 ppm
Ga, In, Pb	<10 ppm
Al, Ba, Be, B, Ca, Cd, Cr, Co, Cu, K, La, Li, Mg, Mn, Mo, Na, Ni, Sr, Ti, V, Y, Zn	<5 ppm

#### PARTICLE SIZE DISTRIBUTION



#### UV/VIS ABSORBANCE



**TISOL B SERIES SAMPLES**



**HANDLING**

NYACOL TiSol B Series products should not be subjected to temperatures of 32°F or below to avoid freezing.

**SAFETY**

A Safety Data Sheet for this product will be supplied on request.

**FOR ADDITIONAL INFORMATION OR TO ORDER MATERIAL**

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)

Information herein is accurate to the best of our knowledge. Suggestions are made without warranty or guarantee of results. Before using, user should determine the suitability of the product for the intended use and user assumes the risk and liability in connection therewith. We do not suggest violation of any existing patents or give permission to practice any patented invention without a license. 2025/01

NYACOL is a trademark of Nyacol Nano Technologies, Inc.  
 P.O. Box 349, Ashland, MA 01721-0349 USA Tel.: 508-881-2220