



## DATA SHEET NYACOL® HDS-3

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#### Hydrophobic Colloidal Silica

Nyacol® HDS-3 is the next generation of Nyacol's proprietary highly dispersible silica product line. HDS-3 is based on Nyacol manufactured 70-80 nm colloidal silica, and is coated in a proprietary process with methyl and tri-methyl functionality to prepare a highly redispersible, hydrophobic silica powder.

The product is supplied as a spray dried aggregate of the primary particles. The spray dried particle mean size is typically 10-20 microns. The powder exfoliates or disperses to primary particles in MEK and other non-polar solvents with measured sizes of 100-200 nm in the solvent.

The product is recommended for solvent based coatings, silicone sealants, as a toner external additive, and as a polymer antiblocking agent for PP and PE.

#### TYPICAL PROPERTIES

Appearance:	White powder
Surface Function:	Methyl/tri-methyl
Dispersed Size:	100 - 200 nm
Powder Size:	10 - 20 microns
BET:	30 - 50 m <sup>2</sup> /g
Carbon, %:	Approximately 2.0
pH:	7 - 10
Primary Particle Size:	70 - 80 nm

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

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

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

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