



## DATA SHEET

### NexSil™ 12HS-FS

#### NexSil™ 12HS-FS Colloidal Silica

NexSil 12HS-FS is an alkaline dispersion of 12 nm colloidal silica at 40% SiO<sub>2</sub> concentration in water. The particles are negatively charged and have a high specific surface area. The product can be used in a wide variety of applications such as precision investment casting, metal surface treatment, textile treatment, catalyst binder or other applications where a very small particle size colloidal silica is required.

NexSil 12HS-FS contains a small amount of ethylene glycol as a freeze stabilizer. The product freezes at slightly reduced temperatures, but goes back to the original “state of sol” after thawing. Nyacol has conducted multiple freeze/thaw cycles demonstrating consistent recovery.

#### TYPICAL PROPERTIES:

Appearance:	Translucent Sol
SiO <sub>2</sub> , %:	39 – 41
Na <sub>2</sub> O, %:	0.3 – 0.5
Particle Size, nm:	10 – 14
Specific Surface Area, m <sup>2</sup> /g:	187 – 260
Viscosity, cP:	< 20
pH:	9.3 – 10.3
Surface Charge:	Negative

#### PACKAGING:

Available in 55-gallon plastic drums, 580 pounds net and 275-gallon IBC, 2750 pounds net.

#### HANDLING:

Keep from freezing.

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

Nyacol Nano Technologies, Inc.	Telephone:	508-881-2220	Local Area
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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. 2022/06

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