



NAN-O-SIL ASD®
CONFIDENCE BY DESIGN™

Energy Strategy
Associates, Inc.
Advanced Silica Solutions

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Revision 1.0

Nan-O-Sil ASD®

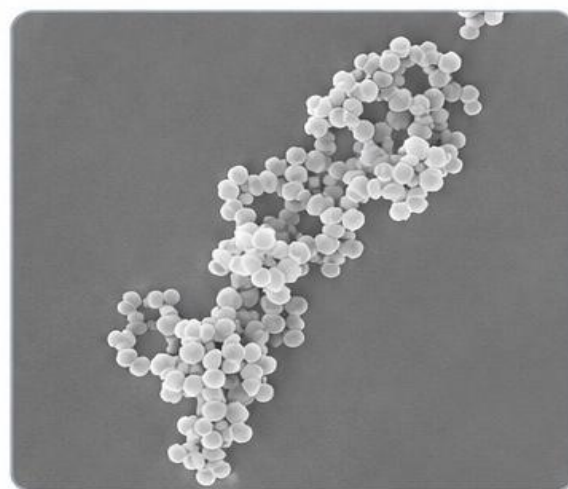
TECHNICAL DATA SHEET

Hydrophilic Fumed Silica – Nucleating Agent/Process Aid/Rheology Modifier

Nan-O-Sil ASD® from Energy Strategy Associates, Inc. is an ultra-fine, bright white, non-porous, extremely high purity, **amorphous silicon dioxide powder**.

Typical Properties

Silica	> 99.94 (dry, %w/w)
Bulk Density:	15.5 lbs/cft
Specific Gravity:	2.2 g/cc
Refractive Index:	1.46
Ignition Loss:	0.54 (wt. % @ 1000 °C)
pH (5% Aqueous Slurry):	4.9-5.5
Mean Specific Surface Area (BET):	24 m²/g
Primary Particle Diameter:	0.017-0.29 µm
Agglomerate:	0.1 - 50.0 µm
Moisture Content:	0.07-0.50 %w/w
Behavior in Water:	hydrophilic
X-ray Form:	Amorphous
Particle Shape:	Spherical
Product Form:	Fine White Powder
Appearance:	Optically transparent



Benefits

- Improves Mechanical Properties
- Enhances Dimensional Stability
- Aids Process Stability
- Increases Throughout
- Improves Surface Quality
- Improve FST Properties
- Acts as Nucleating Agent
- Optimizes Rheology/Flow Characteristics

Applications

- Coatings
- Adhesives & Sealants
- Master Batches & Colorants
- Resin & Polymers
- Composites
- Inks

Packaging & Storage

Nan-O-Sil ASD® is supplied in multiple layer 15 kg bags. It is recommended that the product be stored under dry conditions and protected from volatile substances. Nan-O-Sil ASD® should be used within two years after production. Specific information regarding standard and custom packaging may be obtained by contacting Energy Strategy Associates directly.



Sample and commercial quantities are available for testing

The information contained herein is accurate to the best of our knowledge. Statements are given without warranty or guarantee of any kind expressed or implied. Users should determine the suitability of the application. Nan-O-Sil ASD® is a US origin product.