



TECHNICAL DATA SHEET

Nan-O-Sil ASD®

Nucleating Agent/Process Aid/Rheology Modifier - Fumed Silica

Nan-O-Sil ASD® from Energy Strategy Associates, Inc. is an ultra fine, bright white, non-porous, high purity, **amorphous silicon dioxide powder**, produced through high temperature hydrolysis in a hydrogen oxygen flame.

Typical Chemical Composition (dry, %w/w)

Silica	>99.94
Sodium	<0.002
Aluminum	<0.002
Iron	<0.002
Magnesium	<0.002

Moisture Content 0.07-0.50 %w/w

Physical Properties

Bulk Density: 15.5 lbs/cft
Specific Gravity: 2.2 g/cc
Refractive Index: 1.46
Ignition Loss: 0.54(wt. % @ 1000 c)
Behavior in Water: hydrophilic
pH (5% Aqueous Slurry): 4.9-5.5
Particle Shape: spherical
Mean Specific Surface Area (BET): 23.5946 m²/g
X-ray Form: Amorphous
Primary Particle Diameter: 0.017-0.287 µm
Agglomerate: 0.1-50.0 µm
Appearance: Fine White Powder
Optically transparent

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. Energy Strategy Associates, Inc. is the exclusive worldwide distributor of Nan-O-Sil ASD® - US origin.