



Technical Data Sheet

Coatings

SYLYSIA is a highly efficient matting agent producing uniform films while reducing gloss. The 400 series, characterized by high density, high porosity and low bulk density, has been widely employed as a matting agent for all types of resin paints and water-base paints. The matting characteristics are controlled directly by the amount of SYLYSIA introduced where settling is of least importance.

Anti-Blocking

SYLYSIA is used to control blocking during the manufacturing of plastic film and sheers, as well as ink transfer in high-speed printing. SYLYSIA boasts greater anti-blocking performance at lower loading due to our accurate and consistent particle size distribution and high pore volume.

Adhesion & Thickening

SYLYSIA is used in thickening adhesive applications of resin, rubber, sealing components and many others, acting to increase adhesion strength and durability, as well as stabilizing viscosity for longer shelf life. The 400 series SYLYSIA is effective in preventing stickiness and separation and stability regardless of environmental changes.

Paper

SYLYSIA has proven to improve overall inkjet performance, as well as photographic printing onto diazo-sensitized paper, second traced paper, and photographic paper. SYLYSIA is also applicable for color-coated paper matting and as anti-block in various kinds of paper.

Pharma/Personal Care

SYLYSIA has been widely used as a powdering agent or carrier for liquid medicines, fragrances, oils, and many others. Improves free flow ability in applications where moisture is not beneficial to production processes.

SYLYSIA® 450

SYLYSIA® (SY) is synthetically produced, amorphous and micronized silica gel characterized by high porosity and chemical purity. Fuji Silysia Chemical's SY450 is produced at our Greenville, NC facility. Fuji Silysia is dedicated to producing the highest quality micronized silica through advanced milling technologies and continuous product refinement.

Typical Physical Properties	SY450
Whiteness (%)	95 min
Pore Volume (mL/g)	1.25
BET Surface Area (m ² /g)	300
pH (at 5% slurry)	7.5
Total Volatile (%)	5.0
Oil Absorption (mL/100g)	200
Loose Bulk Density (mL/5g)	47
Average Particle Size (µm)*	8.0
Surface Treatment	None

*SALD 2300 Shimadzu Laser Method

Packaging Information:

15kg (33lb) Kraft bag with poly liner
24 bags/pallet (360kg/794lb)

Appearance:

White, dry powder

Safety:

Amorphous, non-crystalline silica.
See SDS for additional information.

Manufacturing location:

Fuji Silysia Chemical USA LTD
1215 Sugg Parkway
Greenville, NC 27834
(252) 413-0003

Sales Office:

Fuji Silysia Chemical LTD
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