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SYLYSIA[®] 350 FCP

SYLYSIA 350 FCP is amorphous silica gel. **SYLYSIA 350 FCP meets the standards for silicon dioxide in the USP 32 – NF27 monograph.**

PHYSICAL CHARACTERISTICS

- Dry, White Micronized Powder (amorphous)
- Porous
- Chemically Inert
- Tasteless and Odorless
- True Specific Gravity: 2.15
- Refractive Index: 1.46

TYPICAL PROPERTIES

Property	Typical Value
Average Particle Size (µm)	3.9
Apparent Bulk Density (lbs/ft ³)	7.5
Oil Absorption (lbs/100lbs)	310
pH (5% aqueous slurry)	7
Average Pore Volume (mL/g)	1.60
Whiteness	95 min
Surface Area (m ² /g)	300
Packaging	10 kg bag

SPECIFICATIONS

Property	Specification
Loss on Drying, 145°C, 4 hrs	5.0% max
Total Volatiles, 1000°C, 2 hrs	8.5% max
Chloride as Cl, dry basis	0.1 wt % max
Sulfate as SO ₄ , dry basis	0.1 wt % max
Arsenic as As	3 ppm max
Heavy Metals	0.001 wt % max
Silica, as SiO ₂	99.5% min

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APPLICATIONS:

Tabletting:

Whether your product is a tablet or a capsule, Sylsya 350 FCP may improve the ease of powder flow through your production providing more accurate dosage levels. The silica particles aid in the full and complete release from molds by minimizing sticking.

The high moisture capacity can provide longer shelf life for your products as well as providing a wicking action when your tablet is dispersed in water.

In both wet and dry granulation processes, the addition of Sylsya 350 FCP speeds up screening and improves flow to compression.

Active Ingredient Carrier:

The high porosity of Sylsya 350 FCP enables it to absorb over 3 times their weight in liquids. Liquid ingredients can be turned into powders. The inert chemical nature of Sylsya Silica stabilizes fragrance, color, separation, adhesion, thickening and fluidity.

Free Flow/Anti-Caking:

Powders can be kept dry and free-flowing by using as little as 0.25 to 1.0% of Sylsya 350 FCP.

Gelation, Thickening and Suspension:

The high porosity, adsorptive properties and 1.46 refractive index of Sylsya 350 FCP makes it very effective at creating clear gels and thickening liquids. This viscosity improvement aids in suspension of active ingredients.

Product Safety

Sylsya 350 FCP meets all standards for silicon dioxide as detailed in USP32 – NF27 monograph. Sylsya 350 FCP is also Generally Recognized as Safe (GRAS) by the US FDA and has been deemed safe by the Japanese Ministry of Health and Welfare. A Material Safety Data Sheet (MSDS) is available upon request.

Product Packaging

Sylsya 350 FCP is available packaged in 10 kg bags, 3 layer craft with a moisture resistant polyethylene outer layer, 24 bags per pallet.

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