

Introduction

AL FS 800 is hydrophilic fumed silica surface treated with polydimethylsiloxane to make it hydrophobic. Fumed silica's unique manufacturing process produces a very high purity type of silica with nano size primary particles, a fluffy white powder that is an amorphous and colloidal form of silica. These characteristics impart a wide range of benefits to formulations from thickening and reinforcement to free flow and anti-settling. In addition the treatment imparts added water repellency, corrosion resistance, as well as thickening of complex polar liquids

Typical Physical Properties

Grade	AL FS-800
Form	Fluffy White Powder
Silica (SiO ₂ %) Content	≥ 99%
Hydrophobicity in 25% Methanol	1.0 – 2.0
BET specific surface area m ² /g	100±25
Average Primary Particle Size	14 nm
Bulk Density (g/l)	40-60
Heating Loss (105° C for 2 hr)	1.0 – 2.0%
Loss on Ignition (1000° C for 2 hr)	1.5 – 2.0%
pH Value (5% in water)	≤ 6.0%
CAS Number	67762-90-7

Applications:

- Adhesives and sealants
- Unsaturated polyester resin and gel-coat thickening
- Cable gels
- Paints, coatings and inks
- Anti-settling for heavy fillers

Available in 10 lb bags