

A89 Thixotropic Powder

Untreated Fumed Silica Thixotropic Additive

A89 is an untreated fumed silica. It is a synthetic, amorphous, colloidal silicon dioxide that is generally regarded as unique because of its unusual particle characteristics. A89's extremely small particle size, its enormous surface area, its high purity, and its chain-forming tendencies set it apart in a class of its own. A89 is a light, fluffy powder that is white in appearance and is used in many applications and in a variety of industries.

Functions

- Rheology control
- Reinforcement
- Free flow
- Suspension
- Adsorbant

Typical Properties

Property	Units	Typical Result
B.E.T. Surface Area	m ² /g	200
pH (4% aqueous slurry)	-	3.7 – 4.3
325 Mesh Residue (44 microns)	-	0.02% max
Tamped Density	g/l	50
Loss on Heating	-	< 1.5%
Specific Gravity	g/cm ³	2.2
Refractive Index	-	1.46
X-ray Form	-	Amorphous
Assay (% SiO ₂)	-	> 99.8
Oil Adsorption	g/100g oil	Approx 350
Average Particle (Aggregate) Length	microns	0.2 – 0.3

Application

Mix into ALCHEMIX resins to produce thixotropic pastes. Typical loading are between 1 and 5%

Technical Data Sheet



Storage

Store in a cool, dry place out of direct sunlight.

Packaging

A89 is available in 1kg containers

Further Information

Our technical advice, whether verbal, or in writing is given in good faith, but without warranty – this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended process and use.

Before using any of our products, users should familiarise themselves with the relevant Technical and MSDS provided by Alchemie Ltd.

Alchemie Limited

Alchemie Ltd develop, formulate and distribute Epoxy Resins, Polyurethane Resins, Silicones, Model Boards and Sheet Wax for use in the following applications:

- Electrical encapsulation
- Rapid Prototyping
- Prototypes
- Casting
- Gel Coating
- Laminating
- Model Making
- Master Models
- Flexible and rigid mould making

We offer fast service, technical support, development expertise, innovative products, diverse knowledge and experience.

We are a well-established company, with a high level of investment and experience. We implement BS EN ISO 9001.

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