

## FULCAT-22 S

Acid leached phyllosilicate catalyst with low sulfur and low free acid content for use in siloxane equilibration/polymerization reactions.

### Product data

#### Composition

Acid-leached phyllosilicate

#### Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Loose bulk density:	630 kg/m <sup>3</sup>
pH value (2 % in H <sub>2</sub> O):	3.6
Moisture content:	4 %
Particle size distribution D10:	3 µm
Particle size distribution D50:	30 µm
Surface area:	290 m <sup>2</sup> /g
Acid value:	17 mg KOH/g
Sulfur content:	<300 ppm
Appearance:	beige powder

#### Storage and transportation

FULCAT-22 S should be transported and stored dry in the unopened original packaging with good ventilation.

### Applications

#### Catalysis

##### Special features and benefits

Acid activation of the natural phyllosilicate structure develops a large surface area and enhanced acid sites that combine to produce catalytic activity across a range of acid-catalyzed reactions. FULCAT-22 S has been specially designed for use in the preparation of low-molecular-weight polysiloxanes. Low-molecular-weight polysiloxanes are used as precursors in the preparation of silicone additives and surfactants, whereby the polysiloxanes are modified using platinum-catalyzed hydrosilylation. Low sulfur is therefore required in the FULCAT polymerization catalyst in order to prevent downstream sulfur fouling of said platinum catalysts. With this in mind, the sulfur content of FULCAT-22 S is controlled to be less than 300 ppm. The heterogeneous nature of the catalysts means a clean and clear final product can be obtained, free from the contamination inherent when using homogeneous catalysts such as trifluoromethanesulfonic acid.



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This issue replaces all previous versions.