

FULCAT-22 D

Phyllosilicate catalyst specifically designed for fatty acid dimerization reactions.

Product data

Composition

Phyllosilicate

Typical properties

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

Surface area:	70 m ² /g
Bulk density:	830 kg/m ³
Particle size distribution D10:	5 µm
Particle size distribution D50:	20 µm
Sulfur content (XRF):	100 ppm
Cation exchange capacity (CEC):	80 meq. (100 g) ⁻¹
Moisture content:	12 %
Appearance:	beige powder

Storage and transportation

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

Applications

Catalysis

Special features and benefits

FULCAT-22 D is a carefully selected montmorillonite clay, which contains active Lewis acid sites within the phyllosilicate structure. These acid sites deliver catalytic activity in the dimerization of fatty acids, typically tall oil fatty acids, rapeseed oil fatty acids, and soybean oil fatty acids, via a combination of dehydrogenation, isomerization, and Diels-Alder cyclo-addition mechanisms. In addition, the catalyst has been designed to contain a very low sulfur content to ensure no downstream fouling of hydrogenation reactors.

Recommended levels

The catalyst is recommended to be used as received at 5 to 10 % w/w of total reaction mass, which is typically made up of ≥ 95 % fatty acid feedstock.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.



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This issue replaces all previous versions.