

Stearic Acid 50

Commercial saturated fatty-acid processing-aid development in rubber, plastics and related formulations.

CAS No. 57-11-4	EC / List No. 200-313-4	Transport Non-dangerous goods
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Product Information

Stearic Acid 50 is a commercial saturated fatty-acid grade for industrial formulation work. This offer contains C16 palmitic acid and C18 stearic acid rather than high-purity stearic acid alone. CAS 57-11-4 identifies the named stearic component; the mixture composition is shown separately.

Specifications

Parameter	Specification
Appearance	White waxy granules
Color, Hazen	≤100
Acid value	205–210 mg KOH/g
Saponification value	206–211 mg KOH/g
Iodine value	≤0.5 g I ₂ /100 g
Moisture	≤0.20 %
Freezing range	54–57 °C
Inorganic acid	≤0.001 %
C16 fatty acid	50–60 %
C18 fatty acid	38–45 %

Supply specifications follow the local 2026 ZXCHEM TDS and apply to this commercial grade. Test the complete formulation for the intended application.

Typical Properties

Property	Typical Value
Molecular formula	Commercial C16/C18 mixture
Molecular weight	No single mixture molecular weight

Applications

Rubber compounding: Fatty-acid activator and processing-aid component for selected rubber systems. Assess cure response, filler interactions, dispersion and ageing.

Plastics lubrication and release: Processing aid for selected polymer formulations. Evaluate compatibility, melt processing, surface behaviour and migration at the intended loading.

Soap, coatings and selected personal-care development: Fatty-acid feedstock for selected formulations. Assess neutralization, consistency, stability and intended-use quality requirements.

Packaging / Storage

Item	Information
Packing	25 kg lined plastic or paper bags
Storage	Keep sealed in a cool, dry, ventilated warehouse. Protect from moisture, heat and contamination; store away from incompatible chemicals.
Handling	Avoid dust and heated fumes. Wear eye protection and suitable gloves; use thermal protection for hot equipment or molten product and keep transfer areas clean.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com