

Metal Passivator

Aqueous antimony pentoxide dispersion for nickel passivation in FCC catalyst systems.

CAS No. 1314-60-9	EC / List No. 215-237-7	Transport Non-dangerous goods
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Product Information

This metal passivator is an antimony pentoxide dispersion intended for refinery catalyst metal-passivation evaluation. The active component is Sb₂O₅, CAS 1314-60-9, with molecular weight 323.52 g/mol. The complete aqueous dispersion has no single molecular formula or molecular weight.

Specifications

Parameter	Specification
Antimony pentoxide, Sb ₂ O ₅	26.0–28.0 %
Sodium	≤500 ppm
pH at 20°C	4.00–6.00
Density at 20°C	1.30–1.40 g/cm ³
Viscosity at 20°C	3–8 cP
Appearance	Pale yellow liquid

Supply values apply to the aqueous dispersion. CAS, EC number, formula and molecular weight identify the antimony pentoxide active component.

Typical Properties

Property	Typical Value
Molecular formula	Sb ₂ O ₅ (active component)
Molecular weight	323.52 g/mol (active component)

Applications

FCC nickel passivation: Antimony pentoxide dispersion for evaluation in fluid catalytic cracking catalyst systems affected by nickel deposition. Determine treatment and injection conditions using catalyst guidance and the refinery operating procedure.

Refinery metal-management trials: Controlled Sb₂O₅ concentration supports refinery trials evaluating catalyst activity, selectivity and metal contamination. Measure performance in the operating unit before fixing a treatment program.

Catalyst-additive formulation: Aqueous inorganic dispersion for compatible industrial catalyst-additive systems. Assess dispersion stability, sodium tolerance and process compatibility before blending or scale-up.

Packaging / Storage

Item	Information
Packing	1,360 kg IBC
Storage	Store tightly sealed at room temperature in a cool, ventilated area. Protect from freezing, excessive heat and contamination. Keep separate from incompatible water-reactive chemicals and acidic reducing agents.
Handling	Use controlled transfer with local extraction where mist can form. Wear chemical-resistant gloves and eye protection, avoid skin and eye contact and prevent antimony-containing releases to drains or surface water.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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