

Potassium Ethyl Xanthate (KEX)

Xanthate collector for qualified sulfide-ore flotation circuits.

CAS 140-89-6	EC 205-439-3	Transport Class 4.2 · UN 3342 · PG II
-----------------	-----------------	--

Product Information

Potassium ethyl xanthate is an ethyl-chain xanthate collector used in sulfide flotation. The supplied industrial grade specifies at least 85.0% xanthate with free-alkali and moisture/volatile limits. Collector selection depends on mineralogy, pH, activation, depressants and the complete reagent scheme; test concentrate grade as well as recovery.

Specifications

Parameter	Specification
Appearance	Pale-yellow to yellow free-flowing powder or pellets
Xanthate content	≥85.0 %
Free alkali	≤0.5 %
Moisture and volatile matter	≤10.0 %
Water solubility	Soluble; no visible impurity legacy criterion

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₃ H ₅ KOS ₂
Molecular weight (component)	160.30 g/mol

Applications

Sulfide-ore flotation: Evaluate the collector on representative sulfide ore under the intended circuit conditions.

Polymetallic ore trials: Assess selectivity in polymetallic sulfide systems alongside activation and depression conditions.

Collector preparation and handling: Prepare solutions through a controlled plant procedure with suitable ventilation and compatible equipment.

Packaging / Storage

Item	Information
Packaging	110–180 kg iron drums, 850–900 kg wooden boxes or 25–50 kg bags; confirm the quoted format and authorized dangerous-goods packing.
Storage	Store tightly closed in a cool, dry, secure and ventilated place away from heat, sunlight, ignition sources, acids and strong oxidizers. Prevent moisture ingress and uncontrolled dust; maintain appropriate separation between stacks.

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