

Potassium Amyl Xanthate

PAX xanthate flotation collector for non-ferrous sulfide and sulfidized oxide mineral processing.

CAS No. 2720-73-2	EC / List No. 220-329-5	Transport Class 4.2 — Self-heating substances
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Product Information

Potassium amyl xanthate, commonly abbreviated PAX, is the potassium salt of amyl xanthic acid. Its active component has CAS 2720-73-2, formula C₆H₁₁KOS₂ and molecular weight 202.38 g/mol. Commercial powder and pellet grades are used as collectors in flotation of non-ferrous metal sulfide minerals.

Specifications

Parameter	Specification
Appearance	Pale yellow to yellow or grey powder or rodlike pellets
Xanthate purity	≥90.0 % wt
Free alkali	≤0.2 % wt
Moisture and volatile matter	≤4.0 % wt
Solubility	Soluble in water; no visible impurities

Supply limits follow the matching ZXCHEM 2026 PAX TDS. The EC identifier is 220-329-5 for CAS 2720-73-2. Packing refers to the industrial bulk grade; prepared solutions require separate handling controls.

Typical Properties

Property	Typical Value
Molecular formula	C ₆ H ₁₁ KOS ₂
Molecular weight	202.38 g/mol

Applications

Copper-nickel sulfide flotation: Strong collector for copper and nickel sulfide feeds. Evaluate dosage, pulp pH and compatibility with depressants, frothers and other collectors to balance metal recovery with gangue rejection.

Gold-bearing pyrite and oxidized sulfide ores: Collector for gold-bearing pyrite and oxidized sulfide feeds where strong collecting power is required. Confirm mineral liberation and optimize the reagent combination through flotation trials.

Sulfidized copper and zinc oxide flotation: Used after suitable sulfidization of copper or zinc oxide minerals. Control sulfidizing-reagent addition and conditioning before introducing PAX; recovery is dependent on ore and process conditions.

Packaging / Storage

Item	Information
Packing	120 kg iron drums / 900 kg lined wooden boxes
Storage	Keep sealed in a cool, dry, ventilated area away from heat, ignition sources, moisture, acids and oxidizers. Maintain air gaps between stacks; keep bulk quantities above 450 kg below 40°C, as specified in the selected reference SDS.
Handling	Prevent dust exposure and use adequate extraction. Wear chemical-resistant gloves, protective clothing and splash goggles or a face shield. Avoid breathing decomposition vapours; use suitable respiratory protection under a workplace assessment.

Company Contact

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