

Technical Data Sheet

HEXAFLOAT™ C3025



Collection Process

The process of using froth flotation to separate minerals is widely practiced in the mining industry. This separation process takes place in the mineral concentrating plant, where the finely ground ore is brought into suspension with water and air is introduced creating bubbles. Various minerals adhere to these bubbles and float to the surface. Hexion's HEXAFLOAT™ collectors are designed to help separate these minerals.

HEXAFLOAT C3025 specialty collector is low in viscosity and readily mixes with water. This collector is designed to be used to process:

- Lithium
- Phosphate
- Rare earths
- And many others

Benefits

- Increased profits through improved grade & recovery
- Reduced dosage required when compared to conventional fatty acid collectors
- Available as a ready-to-use liquid

HEXAFLOAT C3025

Collector for Oxide Minerals

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Composition

Modified carboxylic acid polymer blend

Application

- HEXAFLOAT C3025 is of an anionic nature and largely resistant to alkalis, acids, and other electrolytes. It shows good compatibility with other anionic and non-ionic minerals.
- HEXAFLOAT C3025 is used in the flotation of spodumene and other pegmatite hosted lithium minerals. Its unique properties can improve downstream processes in filtration, magnetic separation, and smelting.
- HEXAFLOAT C3025 can be applied neat to conditioning circuits due to its enhanced water solubility.
- HEXAFLOAT C3025 can be used as a general replacement for natural oleic acids and tall oil fatty acids. Indicated advantages include lower dosages and process treatment costs, ease of handling and improved metallurgy.
- The typically concentration range is 450-1200. (Actual dosage required must be determined for each individual process.)

Product properties

| Property | Measure |
|-------------------|---------------------|
| Appearance | Clear yellow liquid |
| Odor | Low to very mild |
| Specific Gravity | 0.91 |
| pH (10% solution) | 2.5 |
| Flashpoint | >185°C |
| Rosin Acid | < 1% |

Health, Safety and Environment

HEXAFLOAT Collectors are not classified as dangerous goods. The benefits are:

- Minimum regulations for storage and handling
- Low environmental impact and toxicity level
- Compatible with most materials of construction including hosing and paintwork

Storage temperature should be between 5 - 45°C. Keep container tightly closed, cool and dry. Protect from extreme heat.

Please see SDS for additional safety and handling information