



Danafloat™ 262E mineral collector

Application

Danafloat 262E is a thionocarbamate thiol collector blended with an emulsifier that allows the product to be diluted in water for feeding to a process. The product is fully homogeneous and stable.

Danafloat 262E offers good selectivity against pyrite in sulfide flotation and can provide good to excellent flotation response to various copper minerals, including but not exclusively, chalcopyrite, bornite, chalcocite and covellite. Other applications include copper activated sphalerite, tetrahedrite and, depending on ore mineralogy, gold ore flotation.

While the product is often used as a single collector, the product can be used in combination with a xanthate reagent in addition or even as a partial *Danafloat 262E* replacement. Depending on ore mineralogy and flotation circuit conditions, the *Danafloat*

262E dosage level is often lower than xanthate on a comparative basis. *Danafloat 262E* provides greater frothing compared to xanthate.

Depending on water characteristics and chemistry, *Danafloat 262E* can be diluted in water up to a 10% solution concentration for feeding to the circuit. The product can also be fed to the circuit undiluted. If using a product dilution is desired, because water chemistry can have an impact, stability tests at the target solution concentration is necessary and highly recommended.

Danafloat 262E is normally used in neutral to alkaline conditions (> 6 pH). Typical dosage levels depend on ore feed grades, mineralogies and flotation responses, but typical dosage levels range between 10 to 50 grams per metric ton ore (0.020 to 0.11 lb/T).

Composition

Chemical name: Thionocarbamate
CAS name: O-Isopropylethylthionocarbamate emulsifiers

Active ingredient: 54-58%

Physical properties

Appearance: Reddish brown to golden
Form: Liquid
Boiling point: not available
Freezing point: < 30 degree C
Specific gravity: 0.98 g/ml at 20 degrees C
Flash point: 58 degrees C (Pensky-Martens closed tester)



CHEMINOVA A/S

P.O. Box 9
DK-7620 Lemvig
Denmark
Phone +45 96 90 96 90
Fax +45 96 90 96 91
danafloat.com

Safety and handling

Danafloat collectors are manufactured under the highest quality standards; nonetheless, these chemicals can be hazardous and harmful. Always read and understand the MSDS before handling the product.

Safe handling includes use of safety glasses, splash shield over face, natural rubber gloves and protective clothing. Additionally, avoid inhalation of vapours.

Storage

When properly stored, *Danafloat 262E* has a shelf life of at least 2 years provided the product is stored under the following guidelines:

+ Store the product in a dry and well-ventilated location away from heat and sunlight

- + Use a first in-first out inventory control
- + Avoid freezing
- + Store in plastic drums, polypropylene IBCs/totes, or coated steel drums.

Environmental impact

Danafloat 262E is biodegradable. Do not allow product to report to a natural stream as this product can cause ecotoxicity issues.

water phase and adsorbed to minerals that are not floated report to the tailings. Release of the product directly to natural water streams should be avoided.

Most of the collector is adsorbed to the concentrate mineral particles and removed from the system. Any residual in the

Packing

Danafloat mineral collectors are supplied in a range of containers including plastic drums, coated steel drums, polypropylene IBCs/totes and tank containers having the following net product weights:

IBCs/Totes	1000 - 1075 kg (2205 -2370 lbs.)
Tank containers	approx. 20 mt (44,092 lbs.)

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