Sulfurized Fatty Acid Ester - GDT321H

Sulfurized Fatty Acid Ester (CAS No.: 68390-93-2) is a low-odor, active-sulfur extreme pressure (EP) additive. It is suitable for medium- to heavy-duty machining operations and low-viscosity metalworking fluids.

This additive provides excellent control of sulfur release, exhibiting continuous reactivity over a wide temperature range. It features a very low pour point and a high flash point, making it suitable for localized high-temperature machining conditions. It demonstrates good synergistic effects with various additives such as polyesters and anti-wear agents, and is compatible with a wide range of base oils.

Features

- high EP performance
- high activity
- light-colored
- low odored
- high flash point
- low viscosity



Storage and Shelf Life

It is recommended to use this product within one year from the date of purchase. Store in a cool, dark place. If stored for more than one year, product quality and all parameters should be rechecked prior to use.

Technical Specifications and Test Methods

Item		Quality Standard	Test Method
Appearance:		Brown	Visual inspection
Moisture % (v/v)	≤	0.03	GB/T260
Mechanical impurities %		0.05	GB/T511
Flash Point (COC) ℃:	≈	180	GB/T3536
Kinematic Viscosity (40 ℃) mm^2/s	≥	45	GB/T265
Density (20 ℃) kg/m^3:	≈	1010	GB/T13377
Oil solubility:		Clear, no sediment	Visual inspection[1]
Total Sulfur Content % (m/m):	≥	17	GB/T17040[2]
Active Sulfur Content % (m/m):	≈	8	SH/T0194-92

1. A mixture consisting of 5% (m/m) sulfurized GDT321H and 95% (m/m) base oil shall be stirred at ambient temperature (20 °C) until fully homogeneous. The resulting blend shall appear visually clear and free from any visible sediment or phase separation.
2. The sulfur content shall be determined in accordance with GB/T17040; alternatively, other validated analytical methods may be used.

Our technical advice - whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.

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