

Sulfurized Olefin D (GDT321D)

Also known as diisobutylene sulfide and dihydrocarbyl pentasulfide. It is a highly active, light-colored, and nearly odorless sulfur carrier that is well soluble in most types of base oils. Due to its extremely high sulfur activity, it is an excellent choice for manufacturing metalworking fluids suitable for a wide range of heavy-duty metal removal and metal forming processes. It is also an outstanding replacement for chlorinated paraffins.

Features

- High active sulfur content
- Excellent anti-wear ability under extreme pressure
- Good oil solubility
- High thermal Stability
- Good compatibility with other additives



Packaging and Storage

Packaging:

Available in 200-L steel drums, 1000-L IBC containers.

Storage:

Store in a dry, well-ventilated warehouse at ambient temperature, protected from light (especially when using transparent or semi-transparent containers). The product may also be stored in large-capacity, dry, clean metal containers with nitrogen blanketing.

Technical Specifications and Test Methods

Item	Specifications	Test Method
Appearance	Light Yellow	Visual inspection
Oil solubility test	Clear, no sediment	Visual inspection ⁽¹⁾
Color, No. ≤	4	ASTMD1500
Moisture % (v/v) ≤	0.03	GB/T260
Mechanical impurities % ≤	0.05	GB/T511
Flash point (COC), °C ≥	150	GB/T3536
Kinematic viscosity (40 °C), mm²/s ≤	33-45	GB/T265
Density, (15.6°C) kg/m³	1013-1046	GB/T13377-2010
Sulfur content, %(m/m) ≥	36-40	GB/T17040 ⁽²⁾
Active sulfur, % ≥	36-39	SH/T0194-92
Copper strip corrosion (121 °C, 3 h), ≤	4c	GB/T5096 ⁽³⁾
1. A mixture consisting of 5% (m/m) sulfurized olefin (D) 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. 3. Copper strip corrosion: evaluated at an additive treat rate of 2% in 98% base oil, conducted at 100 °C for a duration of 3 hours.		

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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