

Sulfurized Isobutylene (GDT321C/T321)

Sulfurized Isobutylene (T321), commonly known as sulfurized isobutylene or di-tert-butyl polysulfide, is a yellow oily transparent liquid.

It features excellent extreme-pressure and anti-wear performance, good oil solubility, and high structural stability.

This product is widely used as a primary additive for various industrial and automotive gear oils, and can also be applied in the formulation of anti-wear hydraulic oils and other lubricants.

Features

- Outstanding AW performance under extreme pressure conditions
- Good oil solubility
- High thermal stability



Packaging and Storage

Packaging:

Available in 200-L steel drums, 1000-L IBC containers, or 20,000-L tank 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	Typical Value	Test Method
Appearance	Light yellow	Visual inspection
Oil Solubility	Clear, no sediment	Visual inspection ⁽¹⁾
Color, No.	≤ 2	ASTMD1500
Moisture % (v/v)	≤ 0.03	GB/T260
Mechanical impurities %	≤ 0.05	GB/T511
Flash point (COC), °C	≥ 100	GB/T3536
Kinematic viscosity (100 °C), mm²/s	≤ 4.0	GB/T265
Density (20 °C), kg/m³	1000-1100	GB/T13377-2010
Volatile sulfur-containing gas, ppm	≤ 10	Specialized Instrument
Sulfur content (mass fraction), %	40 ~ 46	GB/T17040-2019 ⁽²⁾
Copper strip corrosion (121 °C, 3 h)	≤ 4a	GB/T5096 ⁽³⁾
Four-Ball Test PD, kg	≥ 500	GB/T3142 ⁽³⁾
Thioether component %	S ₂ ≤ 20	Gas Chromatography
	S ₃ ≥ 50	
	S ₄ ≤ 35	
1、 After being thoroughly mixed at room temperature (20°C), the blend of 5% (m/m) GDT321C and 95% (m/m) base oil [60% (m/m) HVI150BS + 40% (m/m) HVI500] should appear clear and free from sediment upon visual inspection. 2、 The sulfur content in GDT321C can be determined using methods other than GB/T17040-2019 as well. 3、 5% (m/m) GDT321 + 95% (m/m) base oil [60% (m/m) HVI150BS + 40% (m/m) HVI500]		

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