

Sulfurized Isobutylene (Ultra-low odor)

Sulfurized Isobutylene (Ultra-low odor) is an extreme-pressure (EP) additive belonging to the class of sulfurized isobutylenes (di-tert-butyl polysulfides).

It is an upgraded product developed from T321C, featuring a higher proportion of Tri sulfur species (S₃), reduced odor, and improved copper corrosion performance.

Features

- **Excellent EP performance:**
S₃ sulfur species ≥60%, over 10% higher than traditional T321C. Enhanced extreme-pressure capability allows reduced treat rates in additive packages.
- **Mild odor:**
Lower proportions of S₁, S₂, and higher-order sulfur species result in a softer, less irritating odor, improving odor characteristics of blended additive packages and finished lubricants.
- **Lower corrosivity:**
Reduced S₄ and higher sulfur species provide superior copper strip corrosion performance compared with T321C.
- **Broader application range:**
Suitable for premium lubricants, including automotive gear oils, military/tank gear oils, industrial gear oils, and also applicable in metalworking fluids.



Packaging and Storage

Packaging:

Available in 200-L steel drums, 1000-L IBC containers, or 20,000-L tank containers.

Storage:

- It is recommended to use the product within one year after purchase.
- Store in a sealed container in a cool, dry, and well-ventilated area. Keep away from strong oxidizing agents.
- Protect from sunlight, rain, and severe vibration during transportation.

Technical Specifications and Test Methods

Item	Typical Value	Test Method
Appearance	Light yellow liquid	Visual inspection
Color	≤ 2	ASTM01500
Moisture % (v/v)	≤ 0.03	GB/T260-2016
Mechanical impurities, %	≤ 0.05	GB/T511-2010
Flash point (open cup), °C	≥ 100	GB/T3536-2008
Kinematic viscosity (100°C), mm²/s	≤ 2.0	GB/T265
Density (20°C), kg/m³	980 - 1080	GB/T13377-2010
Oil solubility	Clear, no sediment	Visual inspection ⁽¹⁾
Sulfur content, % (m/m)	≤ 40 - 46	GB/T17040-2019 ²
Copper corrosion（121°C, 3h）	≤ 4a	GB/T5096 ³
Four-ball EP test, P _D Rg（1500rpm）	≥ 500	GB/T3142 ³
Sulfur species analysis:		Gas Chromatography
S ₂ and below, %	<15	
S ₃ , %	≥60	
S ₄ and above, %	<30	
1、 After being thoroughly mixed at room temperature (20°C), the blend of 5% (m/m) GDT321L 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 GDT321L can be determined using methods other than GB/T17040-2019 as well. 3、 5% (m/m) GDT321L + 95% (m/m) base oil [60% (m/m) HVI150BS + 40% (m/m) HVI500]		

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