

BIOSOFT 750

High Viscosity Renewable Plasticizer for Rubber Industry

Description

BIOSOFT 750 is a high-viscosity, biodegradable plasticizer obtained by controlled polymerization of rapeseed oil. This process increases the viscosity while maintaining the desirable properties of natural oils. BIOSOFT 750 enhances elasticity, flexibility, and compatibility in rubber formulations, particularly in heavy-duty compounds.

Areas of Application

- Plasticizer and viscosity modifier for rubber blends (NR, SBR, EPDM, etc.)
- Tire compounds, technical rubber, seals
- Eco-friendly alternative to TDAE/DAE oils
- Suitable for heat- and oxidation-stable formulations
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Characteristic features:

- Excellent thickening and plasticizing properties
- Rapidly biodegradable (> 60% OECD 301D)
- Very high viscosity (675–825 mm²/s)
- Good oxidation and thermal stability
- REACH-compliant – very low PAH content
- Based on renewable raw materials
- Improves cohesion and filler binding in rubber

Typical characteristics

PARAMETER	UNIT	TEST METHOD	BIOSOFT 750
Density at 20 °C	kg/m ³	ISO 12185	945 – 995
Kinematic Viscosity at 40°C (ISO VG)	mm ² /s	ISO 3104	675 – 825
Pour point	°C	ISO 3016	< -15
Flash point, COC	°C	ISO 2592	> 220
Water content	ppm	ISO 760	< 3000
Acid Number	mg KOH/g	ISO 6618	< 12
Biodegradability (within 28 days)	%	OECD 301D	> 60

Note

All information is provided to the best of our knowledge and represents general, non-binding guide values. Technical data are average values and are subject to the usual production fluctuations. In case of doubt, please contact our Technical Service. For information concerning safety, the environment and the handling of the product, please refer to our EU safety data sheet. Our products are subject to continuous development. We therefore reserve the right to change the products and their manufacturing processes as well as all information contained in this document at any time and without prior notice.

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