# **TECHNICAL DATA SHEET**



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# Millmax SE BIO 46

Millmax SE BIO 46 is an advanced, high-performance synthetic hydraulic fluid utilising HEES (Synthetic Esters) as its base. It has been developed to excel in demanding systems that require an Environmentally Acceptable Lubricant. The fluid's defining characteristic is its extremely high Viscosity Index (VI), which provides exceptional viscosity stability throughout a wide temperature envelope, crucially helping to reduce frictional energy losses and boost overall hydraulic efficiency.

### **Application**

Suited for medium to heavy-duty hydraulic applications requiring an ISO VG 46 grade, particularly in areas where environmental sensitivity is a concern. Typical uses include large construction machinery, earth-moving equipment, forestry harvesters, and industrial machinery where system pressures and temperatures can fluctuate significantly.

#### Features & Benefits

- Eco-Responsible Choice: Readily biodegradable in accordance with international standards (e.g., OECD 301B) and formulated for minimal toxicity, supporting compliance with environmental regulations.
- Reduced Energy Consumption: Exceptional VI characteristics minimise power wastage caused by fluid resistance, directly contributing to lower fuel or electricity usage.
- Component Durability: Robust anti-wear additives ensure the longevity of high-pressure pumps and precision valves by reducing friction and metal-to-metal contact.
- Operational Stability: Outstanding thermal and hydrolytic stability resists degradation from heat and water ingress, protecting the fluid's core performance properties.
- Temperature Versatility: Maintains an effective lubricating film at high operational temperatures while also ensuring clean flow and ease of start-up in cold weather.

## Performance Profile

- DIN 51524-3 (excl. ASTM D4310)
- ISO 15380 (HEES)
- ISO 6743-4
- VDMA 24568 (HEES)
- Readily biodegradable OECD 301B >80%
- CEC L-33-T-82 Biodegradability >80%
- EU EcoLabel Compliant
- Denison SK-30320
- Swedish Standard 15 54 34
- DIN 51585-A

# Typical Characteristics

Density @ 15°C, g/ml	0.919
KV @ 40°C, cSt	46.8
KV @ 100°C, cSt	9.33
Viscosity Index	189
Pour point, °C	≥-40°C
Flash point, °C	≥275°C