TECHNICAL DATA SHEET

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Millmax SE BIO 68

Millmax SE BIO 68 is a heavy-duty, synthetic hydraulic fluid (HEES) for the most strenuous applications requiring an Environmentally Acceptable Lubricant (EAL). Its film strength supports high loads and temperatures. The very high VI is pivotal, ensuring viscosity remains perfectly in-grade under severe thermal stress, which delivers improved hydraulic response and lower energy overheads.

Application

Specifically formulated for high-output, heavy-duty mobile and industrial hydraulic systems where an ISO VG 68 is specified. Suitable for large, high-power machinery, industrial presses, and heavy offshore equipment where high operating temperatures and sustained load conditions are common, and environmental spill consequences are severe.

Features & Benefits

- High-Level Environmental Safety: This readily biodegradable fluid offers a low toxicity profile, making it the responsible specification choice for operations adjacent to sensitive environments.
- Efficiency Under Load: The class-leading VI keeps the lubricant's resistance (or drag) to an absolute minimum at working temperature, which enhances machine power output and cuts energy costs.
- Heavy-Duty Protection: The fluid's stability and anti-wear chemistry provide tenacious film strength essential for protecting pumps and valves in high-pressure, continuous-operation systems.
- Thermal Endurance: Excellent resistance to both heat and oxidation prevents thermal breakdown, ensuring long fluid life and protection against harmful deposits.
- Consistent Operation: Maintains ideal viscosity across a wide temperature spectrum, ensuring hydraulic components operate correctly and efficiently from start-up to full temperature.

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	0.921
KV @ 40°C, cSt	68.6
KV @ 100°C, cSt	13.2
Viscosity Index	198
Pour point, °C	⩾-35°C
Flash point, °C	⩾280°C

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