



ISO-9001 Registered Quality System.
ISO-21469 Compliant.

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PRODUCT DATA

LUBRIPLATE SYNXTREME FRHD-68Z

FM Approval ID PR473515

DESCRIPTION

LUBRIPLATE SYNXTREME FRHD-68Z is a high performance hydraulic fluid designed for demanding industrial applications requiring fire resistance, and excellent anti-wear properties over wide temperature ranges. This product complies with CFR 21, section 178.3570.

APPLICATIONS

- ⇒ **Excellent Anti-Wear Performance** – Exceptional load-carrying capabilities and specially formulated to provide effective corrosion protection and anti-wear performance in hydraulic systems. Rated as anti-wear, which means the potential for greater reliability, less downtime, and lower maintenance costs.
- ⇒ **Fire Resistance** – High flash and fire points provide safety in applications calling for fire resistant fluids, thus providing operating confidence and potentially reduced insurance costs. FM approved, using FM test method 6930, has classified HF 68 Hydraulic Fluid as “Approved Industrial Fluids”.
- ⇒ **Biodegradability** – Readily biodegradable according to OECD 301F.

COMPATIBILITY

- ⇒ **Other Hydraulic Fluids** – It is compatible with hydrocarbon-based hydraulic fluids. As with any fluid conversion, recognized industry procedures including system cleanup and flushing should be followed.
- ⇒ **Elastomers** – Suitable for use with many elastomeric materials used in seals and gaskets. Compatible elastomers are: Viton, Kalrez, Silicone, Polysulfide, EPR, Butyl Rubber, Buna N, Fluoraz, EPDM, Natural Black Rubber, Natural Red Rubber and Aflas.
- ⇒ **Plastics** – Compatibility should be assessed for any plastic components (such as reservoir sight glasses) exposed to a hydraulic fluid.
- ⇒ **Paints** – Ester based fluids show some solvency for common oil-based paints but minimal solvency for many epoxy-based paints.

STORAGE RECOMMENDATIONS

1. Products should be stored between 40°F-120°F.
2. Products should be stored in a dry covered environment.
3. Products should not be stored in warm, direct sunlight.
4. Improper storage conditions can significantly alter the shelf life of the product. Such conditions would include temperature, moisture, open containers, etc.



Typical Test Data

PROPERTY	TEST METHOD	TYPICAL RESULTS*
Performance Properties		68
V104 Vane Pump Test (total mg wear)	ASTM D-7043	<5
FZG Gear Load Capacity, failure load stage	ASTM D-5182	12+
Viscosity @ 40°C (cSt)	ASTM D-445	68
Viscosity @ 100°C (cSt)		10
Viscosity Index	ASTM D-2270	210
Fire Properties		
Flash Point – Cleveland Open Cup, °C	ASTM D-92	>300
Fire Point, °C	ASTM D-92	>360
FM Approvals	Test Standard 6930	PR473515
Physical - Chemical Properties		
Specific Gravity @ 60°F	ASTM D-1298	0.93
Foam Tendency, Seq. 1 ml @ 25C	ASTM D-892	<50
Pour Point, °C	ASTM D-97	-20
Air Release, minutes	ASTM D-3427	8
Steel Corrosion Protection, distilled / synthetic seawater	ASTM D665A/B	Pass/Pass
Copper Strip Corrosion	ASTM D-130	1a
RPVOT Oxidation Stability Test, Minutes	ASTM D-2272	225

PACKAGING AVAILABLE

5 Gallon Pail
51 Gallon Drum
275 Gallon Bin

Part No.

L1042-060
L1042-062
L1042-275