

PLURASAFE® WI 46 HP High Performance, Synthetic, Fire-Resistant Hydraulic Fluid



PLURASAFE® WI 46 HP High Performance, Synthetic, Fire-Resistant Hydraulic Fluid is formulated to replace mineral oil, vegetable oil and polyol ester based hydraulic fluids in hydraulic fluid applications requiring high performance and fire resistance.

PLURASAFE® WI 46 HP fluid is certified as having "FM Approved" fire-resistance status by FM Approvals; the testing/certification business unit of FM Global.

PLURASAFE® WI 46 HP fluid is based on high quality polyalkylene glycol fluids and specially selected additives, which are combined to give excellent hydraulic fluid performance.

When properly maintained, the life expectancy of PLURASAFE® WI 46 HP fluid compares favorably with mineral oil and polyol ester based hydraulic fluids.

PLURASAFE® WI 46 HP fluid has been designed to provide excellent lubricity, oxidative stability, foam resistance and compatibility with elastomers including butyl, Buna N®, natural rubber, EPR and fluoro-carbon.

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Typical fluid properties of PLURASAFE® WI 46 HP Fluid

Properties	Values
Viscosity, 40°C, cSt	46
Viscosity, 100°C, cSt	9.0
Viscosity Index	186
Pour Point, °F	-42
FM (Factory Mutual) Approved	Yes
Corrosion ASTM D 665 A&B	Pass-clean
Corrosion ASTM D 130	Pass (1A)
Flash Point, COC, °C	274
°F	525
Fire Point, COC, °C	322
°F	610
Foam ASTM D 892	Pass

Typical wear performance properties of PLURASAFE® WI 46 HP Hydraulic Fluid

Test	Result
Eaton-Vickers V104C Vane Pump Test, ASTM D 2882 / ASTM D 7043 (2000 psi, 100 hours, 150°F, 7.5 gpm, 1200 rpm, 5.0 gallon sample)	<5 mg. Total Wear
Four Square Gear Test (FZG) (194°F, 1760 rpm, 1600 ml sample)	Pass, all 12 stages
Four Ball Wear, ASTM D4172 (1800 rpm, 1 hour, 167°F, 40 kg load)	0.35 mm

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