

HOUGHTO-SAFE 419-R

Water Glycol Type Fire Resistant Hydraulic Fluid

DESCRIPTION

Houghto-Safe 419-R is a water glycol type fire resistant hydraulic fluid designed to meet the exacting requirements of modern industrial hydraulic systems. The fluid provides maximum safety in terms of fire resistance together with the optimum combination of performance characteristics and economy to the user. Houghto-Safe 419-R is Factory Mutual approved as a less hazardous fluid.

DATA (TYPICAL VALUES)

Appearance	Clear red fluid
pH	9.5
Viscosity, SUS	
@ 0°F	3800
@ 68°F	380
@ 100°F	200
@ 130°F	119
Viscosity Index	200
Pour Point	-33°F
Specific Gravity, 60/60°F	1.08
Pounds per Gallon, 60°F	9.00
Flash Point	N/A
Fire Point	N/A

FEATURES/ BENEFITS

- Factory Mutual Approved as a fire resistant hydraulic fluid that protects personnel and property from accidental fire and may lower insurance premiums
- Low pour point provides excellent stability in cold weather applications
- High viscosity index allows the fluid to be used at a wide temperature range
- Provides excellent lubrication characteristics which extends pump and component life

PUMP TEST

ASTM D-2882 Procedure Vickers V-104-C pump

TEST CONDITIONS

Test Period, hours	100
Discharge Pressure, psi	2000
Fluid Temperature, °F	150
Pump Speed, rpm	1200
Output Volume, GPM	7.5

TEST RESULTS

Cam Ring Wear, mg	53.2
Vane Set (12) Wear, mg	2.4

HEALTH AND SAFETY

Refer to MSDS for proper handling and disposal. Please note that the MSDS includes handling, health and disposal information which should be passed on to your employees, and to anyone else who comes in contact with our product. Additional advice can also be obtained from your local Houghton representative.

NOTE: Read and understand all precautions on container labels before using this product.

Date | version
Code



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