

# 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.

## 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

## 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

## TEST RESULTS

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

## HEALTH AND SAFETY

Refer to SDS for proper handling and disposal. Please note that the SDS 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.

TN 10.09 US



Houghton International Inc.  
 Madison and Van Buren Aves.  
 P. O. Box 930  
 Valley Forge, PA 19482-0930

Phone: 610-666-4000  
 Fax: 610-666-0174  
 info@houghtonintl.com  
 www.houghtonintl.com

This document contains information based on data that is believed to be correct. However, the product may not be applicable to all uses and operating environments. No warranty or guarantee is expressed or implied.

