

## SENSYN 46170

SYNTHETIC FIRE RESISTANT  
RUST INHIBITED HYDRAULIC FLUID

MILITARY SPECIFICATION: MIL-PRF-46170E TYPE I  
QPL NUMBER: HF-64

### DESCRIPTION:

**SenSyn 46170** is a synthetic fluid developed to meet the severe duty demands of today's military and industrial equipment. Rust inhibitors are utilized to provide protection to ferrous components and modern additive technology is employed for oxidative stability, corrosion inhibition, and antiwear protection.

### APPLICATION:

**SenSyn 46170** is intended for use in severe duty applications, extreme environment and where extended time periods between operation is required such as tank and howitzer recoil mechanism and hydraulic systems, snow removal, earth moving and heavy duty construction equipment, and industrial robotic hydraulic systems.

**SenSyn 46170** is especially recommended in applications where rust protection together with high flash points can afford an extra margin of safety and fire protection.

**SenSyn 46170** should not be used in aviation hydraulic systems without prior evaluation and should not be used in systems in contact with natural rubbers. Intermixing petroleum base stocks with **SenSyn 46170** will reduce fire resistant properties.



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<b>PROPERTIES:</b>		
	<b>Specifications</b>	<b>Typical</b>
Flash Point, °F	425 min.	434
Fire Point, °F	475 min.	483
Pour Point, °F	-65 max.	-75
Autoignition, °F	650 min.	664
Kinematic Viscosity (cSt)		
@ 100°C	3.4 min.	3.71
@ 40°C	19.5 max.	15.38
@ -40°C	2600 max.	2303
@ -54°C		15,500
Specific Gravity, 15,6°C	0.8630+/-0.008	0.8623
Total Acid Number, meq KOH	0.20 max.	0.12
Gravimetric Filtration, mg	0.5 max.	0.02
Trace Sediment, ml	0.005 max	0.002
Water Content, % wt	0.05 max.	0.01
Water Sensitivity, % trans.	90 min.	98
Evaporation, % loss (300°F/22 hrs)	5 max.	2.5
Synthetic Rubber Swell, % 158°F/168 hrs)	15.0 – 25.0	22
Shell 4-Ball Wear, mm <sup>2</sup> scar		
10 kg/1200 RPM/1 hr/75°C	0.3 max.	0.25
40 kg/1200 RPM/1 hr/75°C	0.65 max.	0.35
Solid Particle Contamination, auto HIAC/100mL		
5-25	10,000 max.	2200
26-50	250 max.	40
51-100	50 max.	10
100+	10 max.	0
Foam Characteristics, ml @ 5 min blow/ml @ 10 min		
Sequence I	65/0	20/0
Sequence II	65/0	10/0
Sequence III	65/0	10/0

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