INDUSTRIAL FLUIDS

PYDRAUL® 320C

Fire Resistant* Hydraulic Fluid

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*"**NOTE:** Materials designated 'fire resistant' generally are more difficult to ignite, or once ignited, burn at a slower rate than corresponding conventional materials. This term does not mean that fire resistant materials will not burn. However, when properly used, Monsanto's fire resistant PYDRAUL® HYDRAULIC FLUIDS are useful in helping customers meet their fire safety requirements."

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Monsanto

2-3263-3572-6 LITHO IN USA

TOWOLDMON0022101
WATER_PCB-00006570

PYDRAUL[R] 320C

Fire Resistant Hydraulic Fluid

Typical Properties*

Appearance	Clear green liquid
Viscosity at 210°F 100°F	 6.85 cs 68.1 cs
Viscosity at 210°F 100°F	 48.3 SSU 316 SSU
Pour point	-10°F
Specific gravity, 25/25°C	1.097
Moisture	0.15% maximum
Neutralization No. (mg KOH/g)	0.30 maximum

*This data is based upon samples tested in the laboratory. It is not guaranteed for all samples. The properties listed above, in addition to varying from sample to sample, are subject to change from time to time due to process modifications and improvements. For complete sales specifications write to Monsanto Company at the address listed in this brochure.

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Fire Resistance Properties

AIT (ASTM D2155)	800°F
Flash point	475°F
Fire point	525°F
FM High Pressure Spray Test	Extinguished in less than 5 sec. after torch removed
FM Hot Channel Test at 1300°F	Pass

Performance Properties

Foam Test (ASTM D892) Sequence 1, 2, 3	Pass
Hydrolytic Stability Test (MIL-H-19457)	Pass
Oxidation and Corrosion Test (FS791-3508) (168 hr., 250°F., 5 l air per hr.)	Pass
Metal weight changes, mg/cm^2	
Magnesium	-0.01
Aluminum	+0.05
Cadmium	-0.01
Steel	+0.01
Copper	-0.02
Acidity increase, NN	2.58
100°F. viscosity increase, %	13.1

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Compatibility with Materials

Metals	Pydraul 320C is compatible with all the commonly used metals of construction.
Packings, Seals, Hoses and Bladders	Materials compatible with Pydraul 320C are necessary for dynamic or moving seals. For static seals they are preferred but not essential. Laboratory tests indicate that Viton, teflon, silicone, nylon and butyl may be used. EPR, Buna N, Neoprene and natural rubber are considered unsatisfactory.
Paints	Cured epoxy, phenolic, polyurethane and nylon based paints are satisfactory. Interior surfaces are preferred unpainted.
Other Fluids	Pydraul 320C is miscible in all proportions with the Pydraul E and Pydraul C series of fluids. It is essentially insoluble in water.

Toxicity and Safe Handling

Animal studies indicate that Pydraul 320C can be classed as practically non-toxic when considered as an industrial fluid. It is non-irritating when the skin is exposed to the fluid.

In case of skin contact wash off with soap and water as a hygienic procedure. In the case of eye contact flush with copious amounts of water.

Due to its low order of toxicity, Pydraul 320C requires no special handling precautions.

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