AEROSHELL FLUID 71

AeroShell Fluid 71 is a preservative mineral hydraulic fluid of improved cleanliness. AeroShell Fluid 71 is composed of a mineral base oil with an additive package which results in a product with excellent corrosion preventative properties as well as excellent oxidation stability, and good anti-wear characteristics.

AeroShell Fluid 71 is dyed red.

The useful operating temperature range is –54°C to +121°C.

APPLICATIONS

AeroShell Fluid 71 is intended for preserving hydraulic equipment in storage and also for use in rig testing of hydraulic components.

AeroShell Fluid 71 should only be used in hydraulic systems employing synthetic rubber seals suitable for MIL-PRF-5606/DEF STAN 91-48 (AeroShell Fluids 4 or 41) type of fluids. Refer to General Notes at the front of this section for further information.

AeroShell Fluid 71 is compatible with AeroShell Fluids 4, 31, 41, 51 and 61.

Chlorinated solvents should not be used for cleaning hydraulic components which use AeroShell Fluid 71. The residual solvent contaminates the hydraulic fluid and may lead to corrosion.

SPECIFICATIONS

U.S.	Approved MIL-PRF-6083F
British	Equivalent DEF STAN 80-142
French	Equivalent to DCSEA 535/A
Russian	–
NATO Code	C-635
Joint Service Designation	Equivalent PX-26

PROPERTIES	**MIL-PRF-6083F**	**TYPICAL**
Oil type	Mineral	Mineral
Kinematic viscosity mm^2/s @ –40°C @ –54°C @ 40°C	 800 max 3500 max 13 min	 525 2400 14.3
Flashpoint Pensky Martin Closed Cup °C	82 min	88
Total Acidity mgKOH/g	0.2 max	0.12
Pourpoint °C	–59 max	Below –59
Relative density @ 15.6/15.6°C	–	0.879
Water content ppm	500	200
Colour	Red	Red
Trace sediment mg/l	0.005 max	0.002
Oxidation & corrosion stability 168 hrs @ 121°C – metal weight change – viscosity change @ 40°C – acid number change mgKOH/g	 Must pass –5 to +20 0.2 max	 Passes Passes Less than 0.2
Copper corrosion	3a max	Passes
Corrosion inhibition	Must pass	Passes

Table continued

Table continued

PROPERTIES	MIL-PRF-6083F	TYPICAL
Particle Size per 100 ml 5 to 25 µm 26 to 50 µm 51 to 100 µm Over 100 µm	 10000 max 250 max 50 max 10 max	 1170 90 10 1
Low temperature stability 72 hrs @ –54°C	Must pass	Passes
Shear stability change in viscosity @ 40°C %	2.0 max	0.06
Rubber swell L rubber %	19 to 28	23
Evaporation loss 22 hrs @ 100°C %m	75 max	62
Foaming tendency	Must pass	Passes
Steel on steel wear, wear scar diam, mm	1.0 max	Passes
Gravimetric filtration mg/100ml filtration time mins	0.5 max 15 max	Less than 0.5 12

A viscosity/temperature curve is shown at the end of this section.