



Lubricants Report



Product Data Sheet from Shell Lubricants

PDS# 5.06.02

AEROSHELL* FLUID 41 MINERAL "SUPER CLEAN" HYDRAULIC FLUID

PRODUCT

Aeroshell Fluid 41 is a mineral oil based "super clean" hydraulic fluid containing an oxidation inhibitor and a non-zinc anti-wear additive. It is dyed red for identification and leak detection purposes. It may be used in aviation and industrial hydraulic systems where very low temperature flow properties are desired, synthetic rubber seals are in use and "super clean" solid particle contaminants standards are required. It is not recommended for systems using natural rubber seals.

APPLICATIONS

- **Aeroshell Fluid 41** may be used in aircraft applications where a MIL-H-5606G specified "super clean" hydraulic fluid is required.
- **Aeroshell Fluid 41** may also be used in industrial and mobil hydraulic systems when extremely low startup temperatures are expected.
- **Aeroshell Fluid 41** can also be used in hydraulic systems calling for non-zinc type hydraulic fluids in low temperature applications.

PERFORMANCE BENEFITS

- Superior low temperature flowability
- Good anti-wear protection utilizing a non-zinc anti-wear additive
- Dyed red for easy identification

APPROVALS

- Meets the requirements of :
 - MIL-H-5606G specifications for mineral aviation "super clean" hydraulic fluids.
 - MIL-PRF-5606H

TYPICAL PROPERTIES

Property	MIL-H-5606G SPECIFICATION	AEROSHELL FLUID 41	
Product Code		421-141	ASTM METHOD
Colour	Red	Red	Visual
Density @ 15°C. kg.m ³	Report	873.5	D 1298
Pour Point, ° C max.	-60 max.	-60	D 97
Flash Point, ° C. min.	82 min.	83	D 92
Viscosity			
cSt. @ -54°C	2500 max.	1607	D 445
cSt. @ -40°C	600 max.	383	D 445
cSt. @ 40°C	13.2 min.	13.6	D 445
cSt. @ 100°C	4.90 min.	5.2	D 445
TAN-E, mg KOH/g	0.20	0.07	D 664
Particulate Contamination No. of particulates/ 100ml	10000 max.	pass	FED 791-3006
5-15 micron	1000 max.	pass	
16-25 micron	150 max.	pass	
26-50 micron	20 max.	pass	
51-100 micron over 100 micron	5 max.	pass	