

AEROSHELL TURBINE OIL 750

AeroShell Turbine Oil 750 is a 7½ mm²/s synthetic mixed ester oil containing a thickener and additives which provide excellent load carrying, thermal and oxidation stability.

APPLICATIONS

AeroShell Turbine Oil 750 was developed to meet the requirements of DERD 2487 (now DEF STAN 91-98) and to provide a high standard of lubrication in British civil gas turbines, particularly turbo-prop engines where a good load carrying oil was required for the propeller reduction gearbox.

AeroShell Turbine Oil 750 is also approved by the Russian authorities as an analogue to MN-7.5u and for those Russian turbo-prop applications which require the use of mixtures of mineral turbine oil and aircraft piston engine oil.

AeroShell Turbine Oil 750 contains a synthetic ester oil and should not be used in contact with incompatible seal materials and it also affects some paints and plastics. Refer to the General Notes at the front of this section for further information.

SPECIFICATIONS

U.S.	–
British	Approved DEF STAN 91-98 (replaces DERD 2487)
French	Equivalent AIR 3517
Russian	Analogue to TU 38.1011722-85 Grade MN-7.5u
NATO Code	O-149 (equivalent O-159)
Joint Service Designation	OX-38

EQUIPMENT MANUFACTURER'S APPROVALS

AeroShell Turbine Oil 750 is approved for use in all models of the following engines:

Honeywell	Auxiliary Power Units (some models)
Pratt & Whitney Canada	PT6 (some models)
Rolls-Royce	Dart, Tyne, Avon (some early models only), Gnome, Pegasus, Palouste, Nimbus, Proteus, Orpheus, Olympus 200 and 300
Sikorsky	S-61N transmissions
Soloviev	D30 engine
Turbomeca	Astazou, Bastan, Turmo, Artouste, Arriel, Malika

PROPERTIES	DEF STAN 91-98	TYPICAL
Oil type	Synthetic ester	Synthetic ester
Density @ 15°C kg/l	Report	0.947
Kinematic viscosity mm ² /s @ 40°C	36.0 max	32
@ 100°C	7.35 min	7.47
@ -40°C	13000 max	10140
@ -40°C after storage @ -54°C for 12 hr	-	10800

Table continued

Table continued

PROPERTIES		DEF STAN 91-98	TYPICAL
Flashpoint Cleveland Open Cup	°C	216 min	242
Pourpoint	°C	-54 max	Below -54
Total Acidity	mgKOH/g	Report	0.03
Foaming characteristics		Must pass	Passes
Sediment	mg/l	10 max	Less than 10
Total ash of sediment	mg/l	1 max	Less than 1
Trace element content		Must pass	Passes
Elastomer swell tests		Must pass	Passes
Corrosivity, metal weight change		Must pass	Passes
Gear Machine Rating		Must pass	Passes
Shear Stability			
- viscosity change @ 40°C	%	2 max	Less than 2
- condition of oil		Must pass	Passes
Compatibility and miscibility		Must pass	Passes
Homogeneity			
@ 210°C		Must pass	Passes
@ -40°C		Must pass	Passes

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