



AeroShell Fluid 5M-A

AeroShell Fluid 5M-A is a highly refined, medium viscosity mineral oil containing an extreme pressure additive as well as additives to provide good oxidation and corrosion protection.

DESIGNED TO MEET CHALLENGES

Main Applications

- AeroShell Fluid 5M-A is used for the lubrication of gears where high tooth loadings exist. AeroShell Fluid 5M-A is particularly recommended for the lubrication of translation units of contra-rotating propellers, radar gearboxes, constant speed alternator drives. AeroShell Fluid 5M-A is also used in those helicopter transmissions (gearboxes) which require use of a MIL-PRF-6086 oil.
- AeroShell Fluid 5M-A is also suitable as an extreme pressure lubricant for heavily loaded pins, bushes and gear mechanisms.
- AeroShell Fluid 5M-A must not be used in engines.

Specifications, Approvals & Recommendations

- Approved MIL-PRF-6086F Medium Grade (US)
- Approved DEF STAN 91-112 Grade M (British)
- NATO Code O-155
- Joint Service Designation OEP-70

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Typical Physical Characteristics

Properties		MIL-PRF-6086F Medium Grade	Typical	
Oil type		-	Mineral	
Kinematic viscosity	@37.8°C	mm ² /s	60 - 82	68
Kinematic viscosity	@98.9°C	mm ² /s	-	8.3
Flashpoint (Cleveland Open Cup)		°C	154.5 min	204
Viscosity Index			80 min	100
Pour point		°C	-29 max	Below -29
Total Acid Number		mgKOH/g	1.0 max	0.1
Relative Density	@15.6/15.6°C		-	0.92
Load Wear Index		kg	40 min	50
Colour ASTM			8 max	< 3
Foaming, sequence I, II, III			Must pass	Passes
Copper corrosion 3 hrs	@100°C		Must pass	Passes

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

■ Health and Safety

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

■ Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.