



## Aero J5

High Performance Jet Engine Oil

### Description

Aero J5 represents a new standard in high performance jet engine oils designed to exceed the requirements of MIL-PRF-23699F (C/I). Aero J5 is formulated using premium quality polyol esters enhanced with an optimised additive package providing maximum performance.

### Application

Aero J5 is designed for use in turbofan, turboprop and turboshaft aircraft gas turbine engines, accessory equipment and ground based aeroderived gas turbines. Aero J5 offers superior thermal stability, excellent corrosion protection, improved load carrying capacity and reduced deposit forming tendency, when compared to other commercial oils.

### Advantages

Aero J5 is fully compatible with engine and accessory construction materials, including metals, elastomers and sealing compounds.

Aero J5 is fully compatible and miscible with oils approved to MIL-PRF-23699F. For this reason, changeover to Aero J5 can be carried out by topping-off. By virtue of the differences in seal swell characteristics between oils, the engine/ accessory manufacturers' approval should be obtained for any proposed oil change.

Aero J5 benefits:

- Reduced deposit formation in engines
- Extended service use of oil
- Improved corrosion resistance under engine shutdown/storage

### Additional Information

Aero J5 is fully qualified to U.S. Military Specification MIL-PRF-23699 Revision F, C/I (Corrosion Inhibiting) (Qual: 08B and 08B-1).

## Typical Characteristics

Name	Method	Units	Aero J5
Density @ 15°C	ASTM D1298	g/ml	0.970
Kinematic Viscosity @ 40°C	ASTM D445	cSt	25
Kinematic Viscosity @ 100°C	ASTM D445	cSt	5
Kinematic Viscosity @ -40°C	ASTM D445	cSt	12,000
Flash Point	ASTM D92	°C	258
Pour Point	ASTM D97	°C	-62
Autoignition Temperature	ASTM D2155	°C	410
Evaporation Loss, % wt. 6.5 hrs @ 204°C, 760 mmHG	ASTM D972	-	3.5
Total Acid Number	ASTM D664	mgKOH/g	0.3
Foaming Characteristics Sequence 1 @ 24°C	ASTM D892	-	5/0
Foaming Characteristics Sequence 2 @ 93°C	ASTM D892	-	5/0
Foaming Characteristics Sequence 3 @ 24°C	ASTM D892	-	5/0
Load Carrying Ability, Ryder Gear, Failure Load	FTM 791.6508	lb. in.-	3690
Load Carrying Ability, IAE Gear, mean failure load @ 2000 rpm	IP 166	lb	80
Load Carrying Ability, IAE Gear, mean failure load @ 6000 rpm	IP 166	lb	52
Shear Stability, Viscosity Loss	ASTM D2603	%	0.1
Rubber Swell - Nitrile, 192 hrs @ 130°C	RR 1025	%	7
Rubber Swell - Viton, 192 hrs @ 200°C	RR 1020	%	20
Rubber Swell - Silicone, 192 hrs @ 175°C	RR 1009	%	11
Ball Corrosion Test, All Sequences	ARP 4249	-	Pass

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

## Care and Handling

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60C, exposed to hot sun or freezing conditions.

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Castrol Marine, Technology Centre, Whitchurch Hill, Pangbourne, Reading RG8 7QR, United Kingdom

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