

AIR FORCE FG 68 ISO VG 68 FOOD GRADE COMPRESSOR OIL

Description

AIR FORCE FG 68 is a fully synthetic, food grade compressor oil based on polyalkylene glycol technology (PAG). It offers outstanding load carrying properties and excellent corrosion protection, together with exceptional resistance to micro-pitting.

- Outstanding thermal stability for long oil life
- Good air release properties
- High viscosity index gives good fluid flow at low temperatures and high film strength and wear resistance at high temperatures.
- Outstanding resistance to oxidation
- Low volatility reduces the need for top-up

Applications

AIR FORCE FG 68 is suitable for applications where a potential for incidental contact with food exists. The exceptional lubrication properties of this formula make it suitable for use in all types of compressor including rotary vane and rotary screw types. AIR FORCE FG 68 is also suitable for selected general lubrication and use in hydraulic systems where a food grade fluid is required. When changing from a mineral oil to AIR FORCE FG 68 the attached flushing procedure should be followed.

FDA Compliance

AIR FORCE FG 68 has been formulated using FDA compliant components, thus meeting the requirements of 21 CFR 178. 3570 (lubricants with incidental food contact). AIR FORCE FG 68 is NSF registered (No 125883) Category Code: H1

Physical Characteristics

ISO Viscosity Grade	68
Appearance	Clear and bright
Specific Gravity @ 20°C	1.040
Kinematic Viscosity at 100°C, cSt.	13
Kinematic Viscosity at 40°C, cSt.	68
Viscosity Index	213
Flash Point (Closed) °C	>200
Pour Point, °C	<-51

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Appendix 1

Flush Procedure

When changing from a mineral oil to AIR FORCE FG 68 the following procedure should be followed.

The system should run until the mineral oil is warm, then the system should be drained as fully as possible with particular attention being given to regions where oil may be trapped. The system should be cleaned of residual sludge.

Flush the system with a minimal quantity of AIR FORCE FG 68 by operating under no load, and again drain the system while warm. Repeat this procedure if necessary.

Seals etc. should be inspected and replaced if deterioration is evident. Seals previously exposed to mineral oil may shrink when exposed to AIR FORCE FG 68 and therefore it may be advantageous to replace them. The system should then be refilled with AIR FORCE FG 68. It is useful to inspect the lubricant after one or two days of use to ensure it is free of extraneous materials. Contamination with significant quantities of other lubricants may in some instances lead to sludging, foaming and other problems.

Material Compatibility

Common seal and gasket materials are unaffected by AIR FORCE FG 68. Seals manufactured from Nitrile rubber (NBR) Fluoro-silicone or Vinyl-Methyl Polysiloxane (Q) are recommended, especially in high temperatures applications.

Ordinary industrial paints soften in the presence of these products. Internal system surfaces should be unpainted or coated with resistant materials, e.g. a two part epoxy formulation.

