



# TECHNICAL DATA

Rev.06/19

## FOODSAFE PETRO-LUBE PAG FG SERIES SYNTHETIC FOOD GRADE PAG GEAR LUBRICANTS

PETROCHEM'S FOODSAFE PETRO-LUBE PAG FG SERIES are polyglycol based gear lubricants formulated for use in enclosed gear systems operating where conditions demand the unique properties of these fluids. These fully synthetic polyglycol (PAG) lubricants are NSF H-1 registered and comply with the requirements of F.D.A. 21 CFR 1778.3570. Use these lubricants where there is the potential for incidental contact with food or food packaging.

### PRODUCT FEATURES:

- Excellent wear protection, thermal and oxidation stability
- Reduced sludge and deposit formation to insure enhanced performance when compared with petroleum-based lubricants.
- Tough extreme pressure (EP) properties to protect metal from seizure and wear.
- Extremely good low and high temperature properties
- These lubricants are incompatible with other oils
- Special care should be taken when changing from mineral oil or PAO based product to PETRO-LUBE PAG FG oils to make sure the two types are not mixed. The systems should be flushed and cleaned of oil and residual sludge. All deteriorated seals should be replaced.
- Check lubricant after 2 days to ensure it is free of contamination, sludging or foaming.
- Available in 1 gallon, 5-gallon pail or 55-gallon drum

### PHYSICAL PROPERTIES:

Property	Test Method	ISO 150 (SAE 85W) FG-150	ISO 220 (SAE 90) FG-220	ISO 320 (SAE 90) FG-320	ISO 460 (SAE 140) FG-460	ISO 680 (SAE 140) FG-680
Viscosity Index	ASTM D2270	229	238	247	259	268
Viscosity @ 40° C, cSt	ASTM D445	143	224	319	442	650.2
Viscosity @ 100° C, cSt	ASTM D4451	27.2	41.3	57.0	78.1	110.6
Flash Point, ° F (°C)	ASTM D92	525 (274)	510 (266)	510 (266)	515 (268)	525(274)
FZG Spur Gear Test	ASTM D51354	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass
Pour Point, ° F (°C)	ASTM D97	-49 (-45)	-49 (-45)	-44 (-42)	-44 (-42)	-44 (-42)
Specific Gravity	ASTM D1298	1.048	1.055	1.058	1.060	1.061

### THERMAL CHARACTERISTICS:

Specific Heat	Thermal Conductivity
60°C = 0.48	BTU/Hr (Ft °F)
80°C = 0.49	100°F = 0.095
100°C = 0.51	200°F = 0.090

### HANDLING PRACTICES:

For information on the safe handling and use of this product, refer to the Material Safety Data Sheet. For more information and availability, call (630) 513-6350

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