Product Information

Swepco® Multi-Grade Gear Lube (705)

Versatile Extreme Pressure Gear Lubricant Provides All-Weather Protection for Mobile and Stationary Gearboxes

Swepco® Multi-Grade Gear Lube (705) offers the versatility of one product that meets the demanding requirements of manual transmissions, gearboxes, gear reducers, gear-driven final drives, power takeoffs and differentials. A multigrade extreme pressure gear oil, Swepco Multi-Grade Gear Lube was formulated to provide all-weather performance in mobile and stationary gearboxes, helping protect equipment from wear, foaming, overheating, deposits, rust, corrosion, sludge and water contamination.

Its balanced formulation provides the proper viscosity over a wide temperature range, supports full-film lubrication during cold-weather startup, and delivers reliable service in hot or cold operating conditions.



Beneficial Qualities

Wear Prevention

- Helps prevent metal-to-metal contact, friction and wear
- Increases oil film strength for extreme pressure service without harming yellow metals
- Provides full-film lubrication without channeling during cold-weather startup
- Provides strong rust and corrosion resistance

Long-Lasting Reliable Service

- Controls foaming, helping release trapped heat and lower operating temperatures
- Extends oil life and drain cycles compared with conventional gear oils
- Helps improve fuel economy and reduce energy consumption during equipment warmup
- Promotes rapid water separation and easy drain-off after shutdown
- Reduces oil thickening, sludge, varnish and carbon deposits caused by oxidation

Versatility

- Delivers all-weather protection in mobile and stationary gearboxes
- Helps provide proper frictional characteristics for limited slip differentials
- Maintains more uniform viscosity over a wide temperature range
- Suitable for manual transmissions, gearboxes, gear reducers, gear-driven final drives, power takeoffs and differentials

Available Grade

- SAE 80W-140

Technical Data

Swepco® Multi-Grade Gear Lube

	705
Color	Red
SAE Grade	80W-140
Relative Density @ 60°F/60°F, ASTM D1298	0.880
Viscosity @ 100°C, cSt, ASTM D445	25.0
Viscosity @ 40°C, cSt, ASTM D445	278.0
Viscosity Index ASTM D2270	115
Viscosity-Brookfield @ -26°C, cP, ASTM D2983	105, 300
Flash Point °C (°F), ASTM D92	209 (98)
Pour Point °C (°F), ASTM D97	-48 (-44)
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1b
Four-Ball EP Weld Point kgf, ASTM D2783	400
Four-Ball Wear @ 75°C, 1200 rpm, 40 kgf 60 minutes, mm wear, ASTM D4172	0.38
Emulsion Characteristics @ 82°C, oil/water/emulsion-minutes, ASTM D1401	42/38/0-10
Foaming Characteristics @ 24°C/93.5°C/24°C, 3 sequences, tendency/stability-time to break, ml/ml-sec, ASTM D892	0/0-0; 0/0-0; 0/0-0

Performance Requirements Met or Exceeded

- ANSI/AGMA 9005-F16
- API GL-5; MT-1
- DIN 51517-3 CLP
- Ford WDS-M2C200-C
- ISO 12925-1 CKC
- MACK GO-J
- SAE J2360

Typical Applications

- All-climate service in hot or cold operating conditions
- Differentials, including limited slip differentials
- Gear-driven final drives
- Gear reducers
- Manual transmissions requiring an extreme pressure gear lubricant
- Mobile and stationary gearboxes
- Over-the-road equipment
- Power takeoffs





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