

Product Information



Swepco® Multi-Purpose Gear Oil (1704-1708)

High-Performance Gear Oil Delivers Long-Drain Protection in Mobile and Industrial Gearbox Applications

Swepco® Multi-Purpose Gear Oil (1704-1708) is a high-performance, single-weight gear oil formulated to deliver dependable protection in a wide range of mobile and industrial gearbox applications. It is designed for manual transmissions, gear reducers, final drives, power takeoffs, differentials and enclosed industrial gearboxes where extended lubricant life and broad application coverage are important.

Premium base stocks and advanced additive chemistry help protect equipment from wear, foaming, overheating, deposits, rust and water contamination. The formulation provides cost-effective, long-drain protection while promoting stable viscosity, rapid water separation and reliable lubrication in heavily loaded gear applications.



Beneficial Qualities

Maintains Performance in Demanding Conditions

- Provides high-performance protection for mobile and industrial gearboxes
- Helps maintain proper viscosity at elevated operating temperatures
- Enhances oxidation and thermal stability for extended lubricant life
- Helps prevent sludge, varnish and carbon deposits that result from oxidation

Protects Gear Surfaces

- Helps prevent metal-to-metal contact, friction and wear
- Reduces start-up wear through adhesive and cohesive additive technology
- Provides friction-reducing oiliness to protect vital metal surfaces
- Supplies load-carrying protection for severe gear service and shock loading

Controls Water, Foam and Corrosion

- Separates rapidly and completely from water for easier removal
- Controls foaming to help release trapped heat and lower operating temperatures
- Protects against rust and corrosion by helping keep moisture and acids from attacking metal surfaces
- Supports clean, reliable operation in wet or contaminated environments

Improves Operating Economy

- Extends drain intervals two to three times longer than conventional oils when supported by operating conditions and oil analysis
- Helps improve fuel economy in over-the-road equipment
- Helps reduce energy consumption in stationary equipment
- Reduces inventory complexity and lubrication errors through multipurpose coverage



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Swepeco® Multi-Purpose Gear Oil

	<u>1704</u>	<u>1705</u>	<u>1706</u>	<u>1707</u>	<u>1708</u>
Color	Blue	Blue	Blue	Blue	Blue
SAE Grade	80W-90	110	—	140	—
ISO VG	150	220	320	460	680
AGMA Grade	4EP	5EP	6EP	7EP	8EP
Relative Density @ 60°F/60°F, ASTM D1298	0.883	0.887	0.891	0.895	0.897
Viscosity @ 100°C, cSt, ASTM D445	15.8	19.0	24.6	31.6	43.4
Viscosity @ 40°C, cSt, ASTM D445	160.0	214.0	320.0	465.0	688.0
Viscosity Index ASTM D2270	100	100	99	99	106
Viscosity-Brookfield @ -26°C, cP, ASTM D2983	100,500	—	—	—	—
Flash Point °C (°F), ASTM D92	207 (97)	205 (96)	203 (95)	223 (106)	201 (94)
Pour Point °C (°F), ASTM D97	-30 (-34)	-27 (-33)	-15 (-26)	-15 (-26)	-15 (-26)
Rust Test 4 hrs @ 60°C, DI H ₂ O, ASTM D665A	Pass	Pass	Pass	Pass	Pass
Rust Test 4 hrs @ 60°C, Sea H ₂ O, ASTM D665B	Pass	Pass	Pass	Pass	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1b	1b	1b	1b	1b
FE-8 Bearing Wear D-7.5/80-80, roller loss, mg, DIN ISO 51819-3	21.3	21.3	21.3	21.3	21.3
FZG Scuffing ISO 14635-1, A/8.3/90, Fail Stage	>12	>12	>12	>12	>12
Four-Ball EP Weld Point kgf, ASTM D2783	400	400	400	400	400
Four-Ball Wear @ 75°C, 1200 rpm, 40 kgf 60 minutes, mm wear, ASTM D4172	0.34	0.35	0.36	0.40	0.35
Emulsion Characteristics @ 82°C, oil/water/emulsion-minutes, ASTM D1401	40/38/2-5	40/40/0-10	40/40/0-15	40/40/0-20	42/38/0-20
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	0/0-0; 0/0- 0; 0/0-0	0/0-0; 0/0- 0; 0/0-0	0/0-0; 0/0- 0; 0/0-0	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

- Agriculture equipment
- Construction equipment
- Differentials
- Enclosed gearboxes
- Energy equipment
- Gear reducers
- Gear-driven final drives
- Industrial gearboxes
- Manual transmissions
- Mining equipment
- Oil-lubricated bearings
- Over-the-road equipment
- Power takeoffs
- Stationary equipment



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