# 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

# Technical Data

# Swepco® Multi-Purpose Gear Oil

| | 1704 | 1705 | 1706 | 1707 | 1708 |
|---|---|---|---|---|---|
| **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 (405) | 205 (401) | 203 (397) | 223 (433) | 201 (394) |
| **Pour Point** °C (°F), ASTM D97 | -30 (-22) | -27 (-17) | -15 (5) | -15 (5) | -15 (5) |
| **Rust Test** 4 hrs @ 60°C, DI H2O, ASTM D665A | Pass | Pass | Pass | Pass | Pass |
| **Rust Test** 4 hrs @ 60°C, Sea H2O, 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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