

Synthetic Transmission Oil, SAE 10w, 30w, 50w

Steward SAE 10w, 30w, and 50w are high quality synthetic transmission oils designed to provide excellent all-temperature performance in heavy-duty transmissions, wet brakes, and hydraulic systems. These transmission oils provide superior shear stability for greater equipment protection than conventional petroleum oils with standard viscosity index improvers.

Steward Synthetic Transmission Oils are thermally stable and resistant to oxidation from high temperatures. They contain premium additives designed to improve equipment and oil life.

Properties

- *Thermally stable and resists oxidation from high temperatures
- *Fulfills API CD, CF, and CF-2 diesel requirements, not designed for use in engines
- *Excellent for manual transmissions calling for API CD SAE 30 and 50 engine oils
- *Anti-wear/mild EP fortified for excellent protection of gears in the final drive
- *Shear stable and maintains viscosity grade throughout service life
- *Provides improved cold temperature performance over conventional oils
- *Compatible with common metallic and nonmetallic friction modifiers
- *Suppresses break noise and vibration

Specifications

Steward Synthetic Transmission oils are formulated to meet or exceed the following specifications:

- *Caterpillar TO-4 (SAE 10w, 30, 50)
- *Komatsu KES 07.868.1 (SAE 10w, 30, 50)
- *Allison® C-4, C-3 (SAE 10w, 30)
- *ZF TE-ML 03, 07F (SAE10w, 30)
- *Dana Powershift (SAE 10w, 30)
- *Spicer Clark-Hurth Powershift (10w, 30)
- *Tremec/TTC (SAE 50)
- *Eaton Manual Transmissions (SAE 50)

TYPICAL TECHNICAL PROPERTIES

Grade	SAE 10W	SAE 30	SAE 50
Viscosity 100°C, cSt	7.3	11.1	18.4
Viscosity 40°C, cSt	42.8	75.5	149.5
Viscosity Index	134	138	143
Density (lb/gal)	7.098	7.188	7.268
Color	L4.5	L4.5	L4.5
Flash Point, °C (°F)	246 (475)	252 (486)	266 (511)
Pour Point, °C (°F)	-48 (-54)	-46 (-51)	-36 (-33)
Four Ball Wear Test 75°C, 1200 rpm, 40 kg, 1 hr	0.36	0.36	0.36
Total Acid Number (TAN)	2.12	2.12	2.12