



Product Data Sheet

PowerTrans Syn-Blend AST TO-4/C-4 Heavy Duty Off-Highway Transmission Fluid

DESCRIPTION

Nemco PowerTrans Syn-Blend AST is an all season, semi-synthetic, off-highway automatic transmission fluid for use in off-highway, heavy duty power shift transmissions and oil immersed brakes calling for Caterpillar TO-4M, TO-4 and Allison C-4 fluids. It is formulated to provide optimum low temperature performance in cold weather conditions while maintaining superior lubrication and film thickness during high temperature operation. This high level of performance is achieved through the use of synthetic base stocks, high VI mineral base oils and a balanced additive package.

Features and Benefits

- **All Season Performance** – assures ease of oil pumping over a wide temperature range, improves lubrication and efficiency at low temperatures, especially on equipment with electronic controls
- **Improved Clutch Life** – Balanced frictional properties provides clutch durability and maximum power transfer, giving greater equipment productivity
- **Wear Protection** – Outstanding shear stability, viscosity retention and increased film strength
- **High Temperature Protection** – Excellent thermal, oxidation, sludge, corrosion and deposit protection

Applications

- Nemco PowerTrans Syn-Blend AST meets the Caterpillar TO-4M, TO-4 and Allison C-4 specifications
- Designed for use in off-highway transmissions. This product is recommended for use in Caterpillar, Case, Komatsu and other contractor equipment, including logging, mining and farm applications. It is not intended for use in final drive applications.



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Meets and/or exceeds

- Caterpillar TO-4 and TDTO-TMS
- ZF Power Shift TE-ML 01, 03C, 07F
- Allison C-4
- Komatsu KES 07.868.1
- Eaton Vickers EH-1027C
- Temec/TTC
- Dana Powershift
- Komatsu Dresser
- API CF and CF-2

Typical Characteristics – PowerTrans Syn-Blend AST

SAE Grade	5W-30
Density, kg/L @15°C	0.857
Viscosity, Kin cSt at 40°C cSt at 100°C	68.0 10.5
Viscosity index	143
Pour point °C (°F)	-42 (-44)
Flash point °C (°F)	220 (428)

Physical characteristics shown in the table are typical and may vary slightly.