



# TriboDyn® Tri-Ex<sup>2</sup> Gear Oil 50W, 75W-90, 75W-140, 80W-250

## Product Description

TriboDyn® TRI-EX2 Full Synthetic Gear Oils are fully formulated synthetic ceramic lubricant with a complex mixture of gear lubricants, combined with synthetic base stocks, and a sulfur-phosphorus Extreme Pressure (EP) additive package with friction modifier, which provides excellent thermal and oxidative stability, as well as anti-foam, anti-rust and anti-corrosion protection and have excellent load carrying capabilities. Specifically engineered for use in differentials, manual transmissions, worm gears, power dividers, supercharges, oil lubricated wheel bearings, transfer cases, pumps, and all gear boxes.

## Product Features and Benefits (PATENTED CERAMIC LUBRICANTS)

TriboDyn® TRI-EX2™ Full Synthetic Gear Oils are a patented Ceramic Lubricants that is attracted to areas of heat, & friction. As pressures increase with RPM or load, the special TRI-EX2™ lubricants combined with the active “Ceramic Coating Technology” in the oil forms a self-lubricating “Ceramic Film” in high load & heat areas, providing critical protection that actively seeks out areas needing increased lubrication, and at times not simply reduce or eliminate wear, but the Ceramic film that forms, can also repair & fill in damaged surfaces. It also helps provides continuous protection by dispersing & clinging to critical areas without creating any drag, providing both start-ups, and continuous benefits while protecting against corrosion during long periods of nonuse or while in storage.

### Engineered to:

- Form a Ceramic Coating During Extreme Conditions
- Enhance Gear & Bearing Performance & Efficiency
- Provide Extreme Shock & High Load Protection
- Perform Under Extreme Pressure & Heat
- Reduce Operating Temperatures
- Increase Gear & Bearing Life

## Typical Applications

TriboDyn® TRI-EX2™ Full Synthetic Gear Oils meets or exceeds the API Service Designations: API MT-1, & API GL-5, as well as Eaton PS-386, PS-164 Rev 7, Navistar/International TMS 6816, Mack TO-A Plus, MERITOR® O-81 (Publication TP-90014), ZF Freedomline, MIL-PRF-2105E and MIL PRF 2105D, Mack GO-J & GO-H, and Proposed PG-1/PG-2 Service Designations, Scania STO 110, Meritor -076N (75W90), and Meritor-076M (75W140), and API MT-1 applications. When extreme pressure (EP) gear oils are required. In all heavy-duty truck differentials - In all domestic automobile differentials and most manually shifted transmissions - In heavy duty manually shifted truck transmissions requiring API MT-1 performance - In oil lubricated wheel bearings. Recommended for Heavy-Duty, Severe-Service applications. Fully compatible with all other synthetic & petroleum-based gear oils.

Typical Properties	Test Method	50W	75W-90	75W-140	80W-250
@ 100° C, cSt	ASTM D445	18.34	25.3	27.3	41.9
@ 40° C, cSt	ASTM D445	134.7	202.8	194.75	423
Viscosity Index	ASTM D2270	165	157	178	151
Pour Point, °F (°C)	ASTM D97	-32.8 (-36)	-43.6 (-42)	-34.6 (-37)	-32.8 (-36)
API Gravity	ASTM D4052	34.2	25.3	27.3	41.9
EP Weld Load, kg	ASTM D2783	620	620	800	800+
Scar @ 400 kg Load, mm	ASTM D2783	1.79	1.06	1.27	0.073
CoF @ 400 kg load	ASTM D2783	0.115	0.086	0.088	0.109

ASTM = American Society of Testing Methods | API = American Petroleum Institute | cSt = centistoke | CoF = Coefficient of Friction | °F = degrees Fahrenheit | °C = degrees Celsius

**Packaging: Tote, Drum, Pail, Gallon, Quart \*Private Label Opportunities Available\***

The information and recommendations in this product data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.  
TriboDyn TRI-EX2 Synthetic Gear Oils TDS 20230801

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