



Product Bulletin

MULTI-PURPOSE GEAR OILS

BRAD PENN® Multi-Purpose Gear Oils SAE 80W-90 and SAE 85W-140 are formulated with high quality paraffinic base oils and a premium additive system to provide smooth, quiet performance with maximum protection against wear in gear applications.

BRAD PENN® Multi-Purpose Gear Oils provide superior thermal stability and minimize oxidative sludge and varnish formations in the most severe operating conditions. Highly effective antiwear agents offer maximum protection against scuffing and wear and also offer excellent load carrying capacity. Additionally, these products offer the following benefits:

- Non-corrosive properties
- Good resistance to foaming
- Outstanding rust and corrosion protection
- Excellent performance in low ambient temperatures

BRAD PENN® Multi-Purpose Gear Oils are intended for gears, particularly hypoid gears, in axles operating under various combinations of high-speed shock loads and low-speed, high torque conditions. They meet the requirements of most manufacturers for differentials and manual transmissions. They are the right lubricant for conventional differentials in passenger cars, light-duty and heavy-duty trucks, and manual transmissions requiring an API GL-5 lubricant. Additionally, these gear oils meet the following specifications:

- API MT-1
- MIL-PRF-2105E
- SAE J2360
- Mack GO-J and GO-H
- API Service GL-5 and MT-1
- Navistar B-22
- Meritor Automotive O-76-A and O-76-D.



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BRAD PENN[®]
Multi-Purpose Gear Oils – Typical Properties

SAE Grade		80W-90	85W-140
API Service	Test Method	GL-5 / MT-1	GL-5 / MT-1
Gravity, API	ASTM D-4052	27.6	26.5
Density, lbs/gal (g/L)	Calculated	7.42 (889)	7.47 (896)
Viscosity, cSt @ 40°C	ASTM D-445	140	320.0
Viscosity, cSt @ 100°C	ASTM D-445	14.5	25.3
Viscosity, SUS @ 100°F	ASTM D-2161	733	1,698
Viscosity, SUS @ 210°F	ASTM D-2161	77.6	125.2
Viscosity Index	ASTM D-2270	102	100
Brookfield Viscosity, cP @ -12.1°C, cP	ASTM D-2983	---	150,000 (MAX)
Brookfield Viscosity, cP @ -26.1°C, cP	ASTM D-2983	150,000 (MAX)	--
Pour Point, °F (°C) (max)	ASTM D-5949	-20 (-27)	5 (-15)
Flash Point, °F (°C)	ASTM D-92	450 (232)	525 (272)
Color	ASTM D-1500	8.0	8.0
Product Code		7730	7735