



Product Bulletin

BRAD PENN[®] PENN-GRADE 1[®] 'CLASSIC' MULTI-PURPOSE GL-4 SAE 80W-90 GEAR OIL

BRAD PENN[®] Penn-Grade 1[®] 'Classic' Multi-Purpose GL-4 SAE 80W-90 Gear Oil is specially blended using high quality PENN-GRADE™ mineral base stocks and select additive technologies. It is designed to be used with “yellow” metallurgy (brass, bronze, copper) and other ‘soft’ metals used in synchronizers, bushings, thrust washers and other components typically found in classic manual transmissions and transaxles. In applications specifying API GL-4 quality lubricants, use of API GL-5 lubricants with higher extreme pressure additive activity/concentration can damage these ‘soft’ metal components. It is not intended for use in ‘limited slip’ applications and does not contain friction modifiers which can interfere with proper synchronizer performance.

BRAD PENN[®] Penn-Grade 1[®] 'Classic' Multi-Purpose GL-4 SAE 80W-90 Gear Oil is recommended for use in such time-honored traditional manual transmissions as those made by Muncie, Rockwell, NVG/New Process, Borg-Warner, Saginaw and Ford as well as those used in many imports. It is suitable for use in Nissan UD trucks, Mitsubishi Fuso trucks, Volvo trucks, and Mercedes Benz truck manual transmissions as well as the transmissions/transaxles on Nissan cars and SUV's, Mitsubishi vehicles, and Suzuki vehicles calling for a GL-4 level lubricant. Always consult the equipment owner's manual for proper fluid selection.

Not for use in applications requiring API GL-5 quality extreme pressure (EP) lubricants or where OEM specialized fluids are mandated. Consult Tech Services with any questions.

BRAD PENN[®] Penn-Grade 1[®] 'Classic' Multi-Purpose GL-4 SAE 80W-90 Gear Oil Typical Properties

SAE Grade		80W-90
API Service	Test Method	GL-4
Gravity, API	ASTM D-4052	28.4
Density, lbs/gal	Calculated	7.385
Viscosity, cSt @ 40°C	ASTM D-445	138.3
Viscosity, cSt @ 100°C	ASTM D-445	15.0
Viscosity Index	ASTM D-2270	102
Brookfield Viscosity, cP @ -26.1°C (max)	ASTM D-2983	150,000
Pour Point, °C (°F)	ASTM D-5949	-33 (-27.4)
Flash Point, °F (°C) (min)	ASTM D-92	450 (232)
Color	ASTM D-1500	Green
Product Code		7729



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