



# Product Bulletin

## UNIVERSAL POWER STEERING FLUID

**BRAD PENN<sup>®</sup> Universal Power Steering Fluid** is a mineral-based fluid blended with high-quality *PENN-GRADE<sup>™</sup>* base oils and a premium additive system to provide excellent performance and protection in both domestic and select foreign vehicle power steering systems.

**BRAD PENN<sup>®</sup> Universal Power Steering Fluid** provides outstanding antiwear protection to critical moving parts in today's modern "rack and pinion" power assisted steering systems. It also provides excellent low temperature fluidity, as well as outstanding resistance to rust, corrosion, oxidation, and foaming. Additionally, this product imparts proper seal swell properties and offers a unique friction modifier to minimize pump squeal.

**BRAD PENN<sup>®</sup> Universal Power Steering Fluid** is recommended for hydraulic steering systems of domestic and select foreign automobiles. This product is suitable for use in power steering applications for most automobile manufacturers, including Ford M2C128D, GM (Saginaw), and Chrysler. It should not be used in certain power steering applications where specialized and/or synthetic fluids are required. Consult your vehicle owner's manual for proper lubricant selection.

### BRAD PENN<sup>®</sup> Universal Power Steering Fluid – Typical Properties

SAE Grade	Test Method	5W-20
API Gravity, 60°F	ASTM D-1298A	33.8
Density, lbs/gal (g/L)	Calculated	7.14 (855)
Viscosity, cSt @ 40°C	ASTM D-445	34.5
Viscosity, cSt @ 100°C	ASTM D-445	7.3
Viscosity, SUS @ 100°F	ASTM D-2161	161.8
Viscosity, SUS @ 210°F	ASTM D-2161	50.1
Viscosity Index	ASTM D-2270	183
Brookfield Viscosity @ -40°C, cP	ASTM D-2983	18,000
Pour Point, °F (°C)	ASTM D-5949	-49 (-45)
Flash Point, COC, °F (°C)	ASTM D-92	385 (196)
Color	ASTM D-1500	1.0
<b>Product Code</b>		<b>7431</b>



**AMERICAN REFINING GROUP, INC.**

77 North Kendall Avenue • Bradford, Pennsylvania • 16701  
Phone: 814.368.1200 • Fax 814.368.1219 • [www.amref.com](http://www.amref.com) • ISO 9001:2008