



# Product Bulletin

## SPECIAL R&O AW HYDRAULIC OILS

**BRAD PENN® Special R&O AW Hydraulic Oils** are rust and oxidation (R&O) inhibited antiwear (AW) hydraulic oils formulated with high-quality base oils and a carefully selected additive system. They provide the end-user with a quality cost-effective fluid that offers the following benefits:

- Easy filterability
- Good thermal stability
- Excellent rust protection
- Outstanding anti-foam protection
- Good low temperature properties for cold ambient temperatures
- Excellent antiwear protection to pumps, motors, valves and other hydraulic components
- Excellent hydrolytic stability in the presence of water - will not contribute to the formation of corrosive reactants or metal etching acids.

**BRAD PENN® Special R&O AW Hydraulic Oils** are formulated for use in common applications calling for antiwear hydraulic oil. Such applications include hydraulic systems on mobile and industrial equipment, air tools, hydraulic lifts, jacks and presses.

### BRAD PENN® Special R&O AW Hydraulic Oils - Typical Properties

ISO Viscosity Grade	Test Method	32	46	68
Gravity, API	ASTM D-4052	30.8	30.5	30.1
Density, lbs/gal (g/L)	Calculated	7.26 (870)	7.27 (870)	7.29 (873)
Viscosity, cSt @ 40°C	ASTM D-445	32.0	46.0	68.0
Viscosity, cSt @ 100°C	ASTM D-445	5.5	6.8	8.60
Viscosity, SUS @ 100°F	ASTM D-2161	165	237	352
Viscosity, SUS @ 210°F	ASTM D-2161	44.7	49.0	55.9
Viscosity Index	ASTM D-2270	100	102	97
Pour Point, °F (°C)	ASTM D-5949	-25 (-30) max.	-25 (-30) max.	-20 (-27)
Flash Point, °F (°C)	ASTM D-92	400 (204)	400 (204)	455 (235)
Color	ASTM D-1500	1.5	2.0	L 2.5
Rust Test	ASTM D-665 A&B	Pass	Pass	Pass
Oxidation Stability, hours	ASTM D-943	1,000+	1,000+	1,000+
<b>Product Code</b>		<b>7391</b>	<b>7392</b>	<b>7393</b>



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