



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-1298A	30.3	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	L2.5
Rust Test	ASTM D-665 A&B	Pass	Pass	Pass
Oxidation Stability, hours	ASTM D-943	1,000+	1,000+	1,000+
Product Code		7391	7392	7393



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