



# Product Bulletin

## GULF SECURITY R&O AW HYDRAULIC OILS

**Gulf Security R&O AW Hydraulic Oils** are anti-wear hydraulic oils formulated from high-quality paraffinic base oils and a carefully selected additive system. They offer many of the same benefits as the Gulf Harmony R&O AW Hydraulic Oils, but at a more competitive price.

### FEATURES AND BENEFITS:

**Gulf Security R&O AW Hydraulic Oils** utilize a zinc dithiophosphate anti-wear additive system to impart outstanding wear protection, providing long component life. They also offer the following benefits:

- Easy filterability
- Good thermal stability
- Excellent rust protection
- Outstanding anti-foam protection
- Good fluidity properties for low ambient temperatures
- Excellent hydrolytic stability in the presence of water
- Excellent anti-wear protection to pumps, motors, valves, and other hydraulic components

### APPLICATIONS:

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

### SELECTION:

**Gulf Security R&O AW Hydraulic Oils** are available in three viscosity grades to comply with most hydraulic applications. They are formulated to the ISO viscosity grade (ISO VG) classification system as **32**, **46** and **68**. Follow equipment manufacturer recommendations for appropriate viscosity grade.



**AMERICAN REFINING GROUP, INC.**

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**AVAILABILITY:**

**Gulf Security R&O AW Hydraulic Oils** are available throughout Gulf's marketing area. Your Gulf representative or Gulf Jobber can provide specific information. Need additional information? Call Gulf @ 1-800-566-GULF (4853).

**Gulf Security R&O AW Hydraulic Oils – Typical Properties**

<b>ISO Viscosity Grade</b>		<b>32</b>	<b>46</b>	<b>68</b>
Product Code	<b>Test Method</b>	334302	334305	334307
Viscosity, cSt @ 40°C	ASTM D-445	32	46	68
Viscosity, cSt @ 100°C	ASTM D-445	5.5	6.8	8.6
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
Color	ASTM D-1500	1.5	2.0	L2.5
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)
Oxidation Stability, hours	ASTM D-943	1,000+	1,000+	1,000+
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)