



# Gulf Harmony AW Premium

## Future-Next Anti-Wear Hydraulic Oil

### Product Description

**Gulf Harmony AW Premium** series is advanced future-next generation anti-wear hydraulic oils specially developed to meet the stringent requirements of the most demanding modern hydraulic systems in industrial and mobile equipment operations. These oils are formulated with severely hydro-processed very high quality base oils with specialized additive technology that provide outstanding wear protection, performance, system efficiency and excellent performance in latest **Bosch Rexroth Fluid pump test RDE 90245** where oil is **stressed 13 times more than legacy pump test**. **Gulf Harmony AW Premium** oil provides outstanding thermo-oxidative stability, resists degradation in high temperature, pressure and mechanical stress thereby provide extended oil life, reduced maintenance and downtime costs of machines & systems and improve operating reliability in all modern severely operated hydraulic systems. **It is a very high quality hydraulic oil that meets all the requirements of Bosch Rexroth RE 90235 and it is included in Bosch Rexroth Fluid rating list RDE 90245.**

### Features & Benefits

- Outstanding protection by resisting degradation at high temperature, pressure and mechanical stress and provides extended oil life, system efficiency and reduced maintenance cost
- Outstanding thermo-oxidative stability reduces deposit formation, improves pump & valve performance and allows extended oil drain and filter change intervals
- Excellent load bearing capacity protects equipment against damage and maximize equipment life and reduced maintenance cost
- Excellent hydrolytic stability provides improved protection and extended life of yellow metal parts of the equipment
- Maintains excellent filterability, sludge and particulate control, thereby provides equipment efficiency.
- Special rust & corrosion inhibitors protect multi-metallurgy components against negative effects of moisture presence in the system
- Rapid air release property minimizes chances of pump cavitation and thus prevents component damage, reduces vibration and maintains efficiency especially in modern hydraulic systems where sump sizes are becoming smaller
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

### Applications

- Hydraulic systems found in manufacturing, industrial and mobile service employing gear, vane and piston pumps where anti-wear hydraulic oils are recommended
- Most demanding hydraulic systems subjected to high pressure and loads
- Applications requiring extended oil change intervals
- Mobile hydraulic fluid power transmission systems like excavators/ cranes and general machine lubrication

### Specifications, Approvals & Typical Properties

ISO Viscosity grades	32	46	68
<b>Meet the following Specifications</b>			
Bosch Rexroth Fluid Rating list 90245	x	x	X
Denison HF-0, HF-1, HF-2	x	x	X
DIN 51524 Part 2 HLP Type , ISO 11158 (HM)	x	x	X
Eaton E-FDGN-TB002-E,	x	x	X
GB 11118.1-2011 (L-HL, L-HM)	x	x	X
ASTM D6158-05 (HM)	x	x	X
SAE MS 1004 (HM)	x	x	x
JCMAS P041 HK Hydraulic specification (Normal Temperature use)	x	x	x
GM LS-2	x	x	x
AIST 126, 127	x	x	x
SEB 181222	X	x	x
<b>Has the following Approvals</b>			
Bosch Rexroth RDE 90235	X	x	x
Denison HF-0, HF-1, HF-2	X	x	x

Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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This data sheet has been issued by us in English language only. In the event of any discrepancy between the English language version and any other language version, the English language version shall prevail.



Typical Properties					
Test Parameters	ASTM Method	Typical Values			
Viscosity @ 40 °C, cSt	D 445	33.1	47.2	68.9	
Viscosity Index	D 2270	116	110	104	
Flash Point, °C	D 92	224	234	244	
Pour Point, °C	D 97	-36	-36	-33	
Density @ 15°C, Kg/l	D 1298	0.859	0.866	0.877	
Rust Test	D 665A/B	Pass	Pass	Pass	
Emulsion Test 30 minutes max	@ 54 oC D 1401	Pass	Pass	Pass	
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil	Nil	Nil	
Turbine Oil Stability Test TOST life (minimum), hrs.	D 943	5500+			
FZG, fail load stage, minimum	DIN 51354 Part II	11	11	12	

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