



## Gulf Harmony Synth

Premium quality fully synthetic hydraulic oil

### Product Description

**Gulf Harmony Synth** series are premium quality ashless fully synthetic environmentally acceptable hydraulic oils specially developed to meet the requirements of the most demanding modern hydraulic systems in industrial and mobile service. These oils are formulated with an advanced anti-wear technology and synthetic base stock to provide outstanding protection to hydraulic equipment and to reduce environmental impact in case of an accidental release into the environment. They exceed the performance requirements of global industry standards viz. DIN 51524 Part 2-HLP, AFNOR NFE 48-603 (HM) and ISO 11158 HM.

### Features & Benefits

- Outstanding thermo-oxidative stability reduces deposit formation, improves pump & valve performance and allows extension of oil and filter change intervals
- Exceptional anti-wear property results in longer pump life and reduced maintenance costs
- Naturally high Viscosity Index ensures minimum viscosity change over a wide temperature range
- Excellent demulsibility helps in faster separation of water from oil and resists formation of emulsions
- Special rust & corrosion inhibitors protect multi-metallurgy components against negative effects of moisture presence in the system
- Rapid air release property minimises pump cavitation and prevents component damage
- Offers long term hydrolytic stability and yellow metal compatibility in presence of water
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

### Applications

- Most demanding hydraulic systems subjected to high pressures and loads and in environmentally sensitive applications and requiring extended oil change intervals
- Hydraulic systems sensitive to deposits due to presence of solenoid/ servo / proportional valves having close tolerance in sophisticated Computer Numerically Controlled machines
- Hydraulic systems in industrial and mobile service employing gear, vane and piston pumps and general machine lubrication where anti-wear hydraulic oils are recommended
- Older design hydraulic pumps containing silver or silver-plated parts

### Specifications, Approvals & Typical Properties

ISO Viscosity grades		32	46	68
<b>Meet the following Specifications</b>				
DIN 51524 Part 2-HLP, AFNOR NFE 48-603 (HM), ISO 11158 HM		X	X	X
<b>Typical Properties</b>				
<b>Test Parameters</b>	<b>ASTM Method</b>	<b>Typical Values</b>		
Viscosity @ 40 °C, cSt	D 445	31.8	46.9	67.6
Viscosity Index	D 2270	136	137	143
Flash Point, °C	D 92	234	252	255
Pour Point, °C	D 97	-24	-24	-24
Density @ 15°C, Kg/l	D 1298	0.83	0.85	0.84
Rust Test	D 665A/B	Pass	Pass	Pass
Emulsion Test 30 minutes max @ 54 °C	D 1401	Pass	Pass	Pass
Foam stability in all three sequences, ml	D 892	Nil	Nil	Nil
Turbine Oil Stability Test, hrs	D 943	> 8000		-
FZG, fail load stage, minimum	DIN 51354 Part II	11	11	-

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Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

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