



Gulf Harmony Bio-Synth Super

Biodegradable Hydraulic Fluid

Product Description

Gulf Harmony Bio-Synth Super is a biodegradable hydraulic oil with extra high viscosity index and extremely low pour point specially designed for forestry machinery and equipment operating in extreme climatic conditions and environmentally sensitive area like Arctic climate area. Above is formulated with biodegradable synthetic base stocks and specially selected additive system to meet the requirements of modern hydraulic systems.

Features & Benefits

- Specially selected readily bio-degradable material.
- Extremely high viscosity index and low pour point makes these oils suitable for cold climate operation.
- Good thermo-oxidative stability reduces deposit formation and improves pump & valve performance
- Excellent anti-wear property results in longer pump life and reduced maintenance costs
- Special rust & corrosion inhibitors protect multi-metallurgy components against corrosion
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

Applications

- Environmentally sensitive areas requiring fluids which are virtually non-toxic and readily bio- degradable
- High performance, heavy duty hydraulic and power transmission systems of forestry machinery and equipment operating in extreme climatic conditions like Arctic climate area.
- Hydraulic systems in marine, construction, mining, agriculture, manufacturing, hydraulic power plant and mobile application requiring such quality bio-degradable hydraulic fluids

Specifications, Approvals & Typical Properties

ISO Viscosity grade	46	68	
Meets the following Specifications			
ISO 15380, HEES	X	X	
DIN 51524-3	X	X	
Typical Properties			
Test Parameters	ASTM	Test Values	Test Values
Viscosity @ 100 °C, cSt	D 445	9.6	12.79
Viscosity @ 40 °C, cSt	D 445	46.4	70.00
Viscosity Index	D 2270	195	185
Flash Point, °C	D 92	315	310
Pour Point, °C	D 97	-48	-48
Density @ 15°C, Kg/l	D 1500	0.9103	09323
Rust Test	D 665 (B)	Pass	Pass
Copper Corrosion (3 hrs @ 100°C)	D 130	1b	1b
Air Release at 50 °C, in min.	D 3427	2	5
Demulsibility @54 deg. C	D 1401	Pass	Pass
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil	Nil

January 2024

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.

The information contained herein is believed to be correct at the time of publication and may be subject to modification from time to time. It is the user's responsibility to verify that this data sheet is current prior to using the product. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of products. Gulf Oil International reserves the right to modify and change its products and specifications without prior notice.

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.