



PRODUCT DATA SHEET

GulfSea BD Sterntube Oils

A Marine Biodegradable Sterntube Oil especially formulated for sterntubes and stabilisers operating in sensitive marine environment.

Product Description

GulfSea BD Sterntube Oils are a range of environmentally sensitive lubricants, formulated from natural and renewable esters, which provide excellent lubrication in both neat and emulsion forms. They are primarily designed for use where lip type seals and other circulatory oil feed systems are in operation.

Features & Benefits

- **GulfSea BD Sterntube Oils** are biodegradable according to OECD test 301B and can be considered minimally toxic according to OECD tests 201/202/203 and as such meet the US EPA VGP 2013 / VIDA definition of an Environmentally Acceptable Lubricant.
- They provide excellent lubrication under both boundary and hydrodynamic lubricating conditions.
- **GulfSea BD Sterntube Oils** forms a stable emulsion with any water that may enter the sterntube ensuring that a lubricating film is available at start time and corrosion protection is maintained during prolonged standing.
- The product provides excellent lubrication in both neat and emulsion form.
- Compatible with most engine oils and the metals commonly used in sterntubes. **GulfSea BD Sterntube Oils** can thus be added to the existing oil in use by a topping-up procedure. However a complete oil change whilst the vessel is in drydock is the preferred method of changeover.
- There is good compatibility with the seal materials commonly in use and **GulfSea BD Sterntube Oils** are approved by most major lip and face stern seal manufacturers. (Please contact Gulf Oil Marine to check the specific approvals.)

Applications

GulfSea BD Sterntube Oil ISO 100 & 150 is the viscosity grade normally recommended by the bearing and seal manufacturers for regular running in the sterntube, where there is potential for sea or fresh water contamination into the lubrication system. The ISO 68 grade is recommended for some sterntube systems and stabilisers.

An ISO 220 grade can be made available. It is primarily recommended for use where vessels require emergency assistance in reducing the leakage past a damaged or worn aft seal. It is fully compatible with the other sterntube grades and is very effective in reducing leakage rates.

Due to continual product research and development, the information contained herein is subject to change without notification.

Typical Properties may vary slightly.



Marine

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Typical Properties

GulfSea BD Sterntube Oils					
Test Parameters	Test Method	BD 68	BD 100	BD 150	BD 220
Appearance	--	Clear Yellow	Clear Yellow	Clear Yellow	Clear Yellow
Viscosity @ 40°C, cSt	ASTM D 445	68	100	150	220
Viscosity Index	ASTM D 2270	215	187	181	200
Density @ 15°C, kg/l	ASTM D 1298	0.919	0.927	0.929	0.930
Pour Point, °C	IP 15	<-24	<-24	<-24	<-24
Flash Point, °C	ASTM D 92	>170	>170	>170	>170
Copper Corrosion	ISO 2160	1b	1b	1b	1b
Rust Test, sea water	ASTM D 665B	Pass	Pass	Pass	Pass

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