

TECHNICAL PRODUCT SHEET

CYBIO—STETUB

ISO 100, 150



DESCRIPTION

CYBIO-STETUB is a premium, non-emulsifying synthetic stern tube lubricant formulated from fully biodegradable esters to deliver superior lubrication performance with minimized environmental impact. Engineered as an Environmentally Acceptable Lubricant (EAL), it meets the requirements of the US EPA Vessel General Permit (VGP) and offers excellent oxidative stability, low toxicity, and rapid biodegradability. Its advanced synthetic ester base ensures strong protection against wear and corrosion while maintaining exceptional film strength across a wide range of marine operating conditions.

APPLICATIONS

CYBIO-STETUB is designed for the lubrication and corrosion protection of vessel stern tube bearings, particularly where strict environmental regulations apply or where the risk of incidental discharge exists. It is recommended for stern tubes, sliding and rolling bearings, and other marine systems where a biodegradable, low-toxicity lubricant is preferred. Its formulation makes it suitable for operations in environmentally sensitive areas, offering a safer alternative to conventional mineral oils when accidental leakage may occur.

SPECIFICATIONS

US EPA	VGP (2013)
EU	Ecolabel criteria

PROPERTIES

CYBIO-STETUB features a high viscosity index, enabling reliable film formation at high operating temperatures and low torque start-up in cold conditions. Its fully saturated ester base provides excellent oxidation and hydrolysis resistance, ensuring longer lubricant life and thermal stability. The ashless additive system delivers strong anti-wear and anti-corrosion protection, with superior load-carrying and good demulsibility to maintain system efficiency. The lubricant is readily biodegradable and exhibits low aquatic toxicity, reducing environmental risk in case of discharge.

BENEFITS

CYBIO-STETUB enhances stern tube system reliability by maintaining stable lubrication films, reducing wear, and preventing deposit formation even under severe conditions. Its biodegradability and low toxicity significantly lower environmental impact and regulatory risk, especially in marine protected areas. The lubricant supports longer service intervals, reduces consumption through effective water separation, and protects sensitive materials, including yellow metals, against corrosive wear. Overall, it provides a sustainable, high-performance solution for modern marine lubrication demands.



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PHYSICAL-CHEMICAL CHARACTERISTICS

CYBIO-STETUB	METHOD	ISO 100	ISO 150
Density at 15°C, g/cm ³	ASTM D4052	0.930	0.950
Viscosity, Kinematic (cSt) 40°C	ASTM D445	100	150
Viscosity, Kinematic (cSt) 100°C	ASTM D445	15.9	21.6
Viscosity index	ASTM D2270	>170	>170
Flash point, COC, °C	ASTM D92	>230	>230
Pour point, °C	ASTM D97	-40	-40

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

