



Trusted for Generations

# Mineral Based Marine Lubricants

Explore our range of high performance, OEM approved, emulsifiable mineral based marine lubricants

- Proven performance
- OEM approved
- Expert, personal technical support
- Worldwide stock availability



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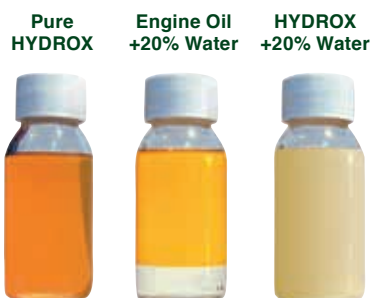
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Quality Standard and the  
ISO 14001 Environmental  
Management Standard



# Sterntube Lubricants delivering superior performance and wear protection even when water ingress occurs

## MINERAL BASED STERNTUBE LUBRICANTS



**HYDROX and NEOX lubricants dramatically reduce wear to sterntube bearings in the event of seawater ingress.**

These mineral based lubricants provide an excellent level of lubrication in both neat and emulsion forms. They are developed primarily for use in sterntubes. The products provide:

- Superior level of lubrication even when water ingress occurs
- Excellent wear protection
- Excellent corrosion protection
- Compatibility with metals commonly used

HYDROX lubricants are compatible with the elastomers used for lip seal systems and are approved by the major lip and face stern seal manufacturers.

NEOX lubricants are primarily recommended for compression or older face seals with non-circulatory oil feed systems.

HYDROX lubricants will absorb any sea or fresh water entering the sterntube to form a fluid emulsion. This reduces the risk of free water being present and continues to provide the required lubrication and corrosion protection. (Conventional oils do not emulsify in the same way and tend to separate, exposing components to free water and potential wear damage).

The emulsions, once formed, have excellent stability, therefore free water is not released. This ensures corrosion protection is maintained even during prolonged standing and during the critical time of start-up.

HYDROX lubricants (both neat oil and emulsion including 20% water contamination) have been successfully tested by Class and their stability, lubricating and corrosion protection performance have been verified by Lloyds Register.

### HYDROX 550

HYDROX 550 (ISO 68) is the viscosity grade generally recommended by the bearing and seal manufacturers for regular running in the sterntube.

### HYDROX 21

HYDROX 21 is recommended for use particularly where problems of oil leakage past the aft seals is experienced.

HYDROX 21 is compatible with most engine oils and system oils commonly used in the sterntube and can therefore be introduced by top-up procedure to the existing sterntube oil. A minimum of 50% is recommended as the initial charge, however, the lubricant offers the greatest benefit when used to completely fill the sterntube system.

### NEOX 8000

NEOX 8000 is a high viscosity emulsifiable sterntube lubricant. The use of NEOX 8000 will often minimise the rate of any oil leakage past a damaged or worn aft compression seal and can also be used with some older face seals. It is not recommended for use with elastomer lip stern seals.

### NEOX D

NEOX D is a high viscosity emulsifiable sterntube lubricant. It is a grease-like lubricant at ambient temperatures and is applied using a grease applicator. It is sometimes used with compression seals and is recommended for the lubrication of trunnion bearings on some older Rolls Royce (Brown Brothers) retractable fin stabilisers. It is not recommended for use with elastomer lip stern seals.

## At a glance

Product	Description	Typical Viscosity (cSt@40°C)	Viscosity Index	Density (kg/ltr@15°C)	Pour Point ASTM D7346 (°C)	Anti corrosion SKF Water Emcor Test	Emulsifiable
HYDROX 550	Mineral oil based sterntube lubricant for regular use and lubrication of some stabiliser models.	73	100	0.88	< -25	Passes	✓
HYDROX 21	Mineral oil based sterntube lubricant for use in the event of outboard leakage and with some stabiliser fin shafts.	275	100	0.90	< -5	Passes	✓
NEOX 8000	Mineral oil based sterntube lubricant for use when compression or older face seals are fitted in a non-circulatory oil feed system.	370	91	0.90	5	Passes	✓
NEOX D	Mineral oil based sterntube lubricant with grease-like consistency at ambient temperature, for use in some compression seals and certain stabiliser bearings.	370	N/A	0.90	29	Passes	✓

# Thruster Lubricants delivering superior anti-wear, EP and corrosion protection even when water ingress occurs

## THRUSTER LUBRICANTS

HYDROX EP are extreme pressure (EP) gear lubricants based on mineral oils which have been designed primarily for the lubrication of thrusters. They will absorb any sea or fresh water that may enter the unit to form a fluid emulsion thereby continuing to provide the required lubrication and corrosion protection.

The emulsions, once formed, have excellent stability, therefore free water is not released. This ensures corrosion protection is maintained even during prolonged standing and during the critical time of start-up.

HYDROX EP lubricants (both neat oil and also emulsion form) have been successfully tested by Class and their stability, lubricating and corrosion protection performance have been verified by Lloyds Register.

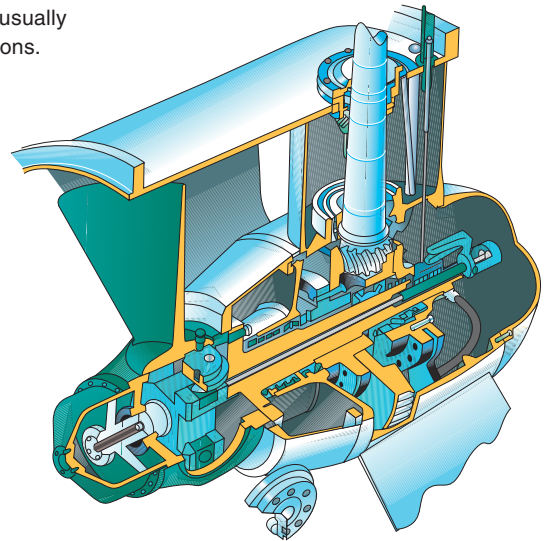
In accordance with best practise and some OEM guidelines we would, however, always recommend monitoring water content and taking remedial action once the water content exceeds specific OEM limitations for regular running.

### HYDROX EP

HYDROX 8 EP and HYDROX EP 150 provide a very high standard of anti-wear performance suitable for the lubrication of heavily loaded gears, giving high resistance to micropitting and scuffing. They have been formulated to be suitable in applications where a combined gear lubricant/hydraulic function is required.

The lubricants have been formulated to have good compatibility with the elastomers used for seals fitted in the marine equipment. They have been tested and approved for use by the major seal manufacturers.

Both HYDROX 8 EP and HYDROX EP 150 are compatible with many other EP type lubricants and therefore can usually be added without special precautions.



Product	Description	Typical Viscosity (cSt@40°C)	Viscosity Index	Density (kg/ltr@15°C)	Pour Point ASTM D7346 (°C)	FZG Extreme Pressure Test	Emulsifiable
HYDROX 8 EP	Mineral oil based lubricant for use in auxiliary or main propulsion thruster units.	105	105	0.89	< -20	Passes load stage 12	✓
HYDROX EP 150		150	102	0.90	< -20	Passes load stage 12	✓

At a glance

# Greases delivering a very high standard of lubrication and corrosion protection

## GREASES



### NEOX DT and DTX

NEOX DT and NEOX DTX have the consistency of soft grease and provide a very high standard of lubrication and corrosion protection. Both products are recommended for use on grease lubricated stern tubes, wire ropes and rigging, container lashings / shackle threads, hatch cover bearings and runners, deck winches and slipway rails.



NEOX DT can also be used for the lubrication and protection of the CPP hub unit where grease packing is required and where sea water, fresh water or condensation moisture may occur.



NEOX DT and NEOX DTX can be used as a protective dressing for equipment where sea water, fresh water or condensation moisture may contaminate the system. When worked with any water that contaminates the lubricant, the water will be absorbed to form a thick, viscous emulsion. The emulsion itself provides both lubrication and anti-corrosion properties.

The lubricants and their emulsions adhere well to metal, providing excellent resistance to the washing action of sea or rain water. Unlike many conventional types of grease, NEOX DT and NEOX DTX do not harden excessively or crack when subjected to cold, wet conditions.

### VICKERLUBE HV WRL

VICKERLUBE HV WRL is a wire rope dressing which has been formulated to be fluid enough to be applied by brush, spray or mechanical means. For a superior wire rope penetration the use of a pressurised applicator is recommended.

The key benefit of VICKERLUBE HV WRL is that it has specific de-watering characteristics such that any water present on the surface of the metal is displaced leaving a thin continuous film of lubricant, which has excellent anticorrosion properties.

## At a glance

Product	Description	Density (kg/ltr@15°C)	Pour Point ASTM D7346 (°C)	Flashpoint SETA (°C)
NEOX DT	Mineral oil based soft grease used for the lubrication of bearings and gears, and as a protective coating for exposed equipment. Approximates to a No.2 grease.	0.90	50	> 205
NEOX DTX	Mineral oil based soft grease used for the lubrication of bearings and gears, and as a protective coating for exposed equipment. Approximates to a No.4 grease.	0.90	50	> 205
VICKERLUBE HV WRL	Mineral oil based wire rope dressing.	0.89	-5	> 232

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