

# product data

## HYDROX BIO 220

- Description:** A biodegradable lubricant based on a mixture of natural and synthetic esters.
- Use:** A sterntube lubricant. Designed primarily for use where lip type seals and modern circulatory oilfeed systems are fitted. **Hydrox Bio 220** is a biodegradable lubricant and is recommended for use particularly where problems of oil leakage past the aft seals is being experienced.
- Characteristics:**
- |                   |  |
|-------------------|--|
| Appearance        | Clear, yellow oil                                      |
| Viscosity @ 40°C  | Approx. 220 cSt  |
| Viscosity @ 100°C | Approx. 34 cSt   |
| Density @ 15°C    | Approx. 0.932 kg / ltr                                 |
| Pour point        | Below -12°C  |
| Cloud point       | Below 0°C  |
| Flash point       | Above 180°C  |
| Shelf life        | Minimum 2 years expected in original sealed containers |
- Performance Data:**
1. Designed specifically for sterntube lubrication and provides a very high standard of lubrication under both the boundary and hydrodynamic lubricating conditions encountered in a sterntube.
  2. Compatible with the metals commonly used in sterntubes and provides excellent corrosion protection.
  3. The oil will absorb any sea water or fresh water entering the sterntube to form a relatively fluid emulsion which remains stable and therefore reduces the risk of free water being present in the sterntube. The emulsion maintains a very high standard of lubrication and corrosion protection properties.
  4. The oil will absorb a very high amount of water, however a maximum of 20% water content is recommended as a guideline, for regular running in the sterntube.
  5. **Hydrox Bio 220** is expected to be effective in reducing the rate of oil leakage past a damaged or worn aft seal.
  6. **Hydrox Bio 220** has been independently tested and confirmed to be biodegradable according to OECD 301B test method.
  7. **Hydrox Bio 220** has been independently tested for toxicity relative to the marine environment. It has been found to be of low toxicity to the organisms listed:

Fish	tested to OECD 203
Daphnia	tested to OECD 202
Shrimp	tested to AFNOR NFT 90-349
Algae	tested to OECD 201
  8. **Hydrox Bio 220** can be burned under safe controlled conditions.
- Notes:** This product should only be used for the application specified. The supplier cannot accept responsibility if it is used in any other applications.

H.S.T.N.: 340399  
REF: DM12/06B

the quality touch



FM 1851



EMS 40717

ACCREDITED TO THE ISO 9001 QUALITY STANDARD AND THE ISO 14001 ENVIRONMENTAL MANAGEMENT STANDARD

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