

## KEMEL COMPANY

### OUTLINE

KEMEL is a global company with its manufacturing facilities located in Japan. With changing markets and environmental guidelines we have established ourselves as a world leader in innovation and compliance. Stern tube seal for ships are technically very complex components, and are required to be highly reliable. Utilizing its expertise and knowhow build up over many years, KEMEL contributes to the comfort and safety of navigation and to environmental conservation.

### GLOBAL SERVICE NETWORK

A global marketing and service network is essential in ensuring the safety of ships sailing around the world. KEMEL has inventories in Japan, the U.S., Singapore and U.K. to support our customers anywhere in the world. This extensive network is another area where we earn our reputation as the world's foremost marine seal brand.

### PRODUCTS

#### AIR SEAL

KEMEL AIR Seal use air supplied from an air source on the ship to form an air chamber within

each seal to completely separate the lubricant from seawater. As leading manufacture and supplier in this field, KEMEL tries all the best to comply with the market demand as well as the safety and environmental protection requirement and legislation.

#### Biodegradable Marine Lubricant KEMEL ST-83A

ST-83A meets the EAL (Environmentally Acceptable Lubricant) specification in 2013 VGP of US EPA.

#### Base Fluid

Polyethylene glycol, a type of polyalkylene glycol, is well known as non-toxic material. It is generally applied in cosmetics and medicines.

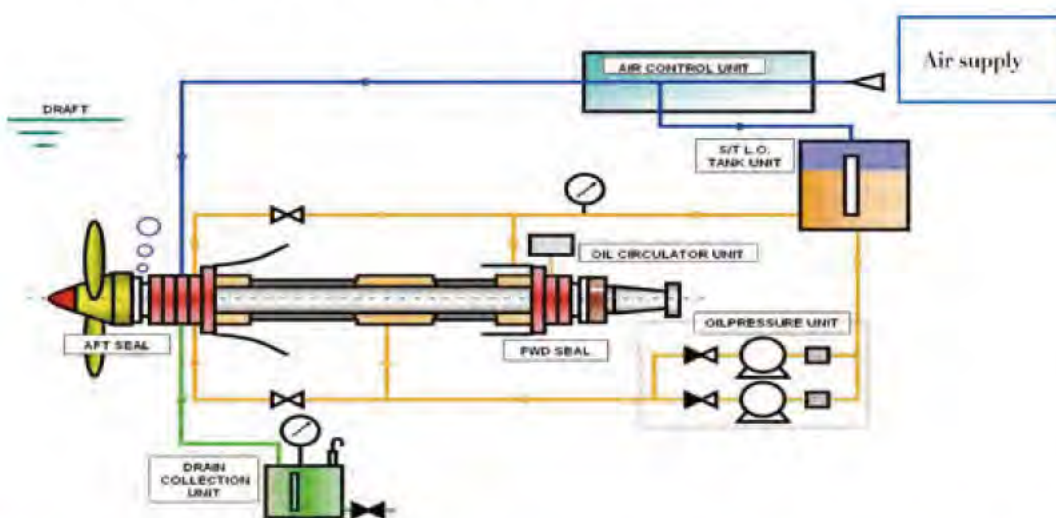
#### No Sheen / No Sludge

ST-83A is water soluble and forms no sheen or discoloration to the water.

Also produces no sludge or emulsion under water surface.

#### High Seawater Tolerance

ST-83A provides excellent lubrication and corrosion prevention even when the seawater content is 10%.


**KEMEL**
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