

MPS 996 BIO - AGAINST WATER INGRESS

FOR LIP TYPE SEALS



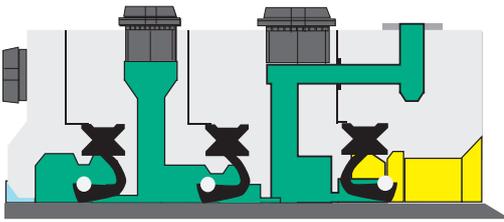
Better for the environment...

- Less hazardous substances ending-up in the environment
- Verified performance

...better for you.

DYNAMIC BARRIER IN AFT SEAL CHAMBERS

MPS 996 BIO is silica thickened paste based on sustainable and readily biodegradable esters. MPS 996 BIO is qualified as EAL and developed specifically to stop water ingress in systems with lip type seals where EAL oils are used. MPS 996 BIO contains a very high amount of solids, which due to friction will embed the wear surfaces during operation, repairing minor defects in the contact surfaces between shaft and seal.



■ 100% MPS 996 BIO added

MPS 996 BIO has a seal revitalizing effect, which preserves or restores flexibility of the rubber seals without swelling.

MPS 996 BIO will work equally well with most materials e.g. bronze, chrome, stainless steel or brass and rubber, asbestos and plastics.

TYPICAL CHARACTERISTICS

Appearance:	White
Flashpoint:	>150 °C
Density at 25°C. (g/cm ³):	<1000
Solubility in water:	Insoluble
Shelf Life:	Min. 2 years under correct conditions

TECHNICAL DATA

NLGI grade: ASTM D217 NLGI 2

4 Ball Extreme Pressure weld load - Passing load = 250 kg

ASTM D2596 Weld Load = 400 kg

4 Ball Extreme Pressure weld load- Passing load=250 kg

Contaminated with 25% sea water ASTM D2596 Weld Load = 315 kg

EMCOR IP220 - ≤ 2-2

EMCOR IP220 with 25% sea water contamination - ≤ 3-3

Water washout (79 °C)=0,4%

4 Ball Anti Wear 40 kg (ASTM D2266) =0,78 mm

BENEFITS

- MPS 996 BIO is an EAL and satisfies the EPA 2013 Vessel General Permit (VGP) requirements
- Compatible with most EAL (Environmentally Acceptable Lubricants) oils
- Broad working temperature range
MPS tolerates temperatures from -10° C to 120° C.
- Compatible with FKM elastomers.
MPS restores seals elasticity without swelling.
- Surface treatment
MPS polishes surface and fills in minor cracks.
- Anti-corrosion and EP properties
MPS enhances corrosion protection and allows increased loads in water contaminated environments.

TYPICAL APPLICATION AREAS

MPS 996 BIO is specially designed to re-establish the sealing effect in defective lip seals systems with water ingress, where the use of EALs is regulatory.

TREATMENT RATE

Fill aft seal chambers with 100% of MP 996 BIO.

Usually only 10 kg of MPS 996 BIO is required for the first application. A re-fill of 3-4 kg is required every other month due to biodegradability of the product.

WHEN IN DRY DOCK

Contact Lindemann for flushing instructions.

EMERGENCY KIT AGAINST WATER INGRESS WHERE USE OF EAL IS REGULATORY



MPS 996 BIO - 18 kg drum is usually enough for 3-4 applications
Grease Pump for application