

PRODUCT DATA

HYDROLUBRIC® 123-B

Hydrolubric 123-B is a synthetic water additive specifically designed to meet the needs of central water systems - hydraulic systems incorporating reciprocating piston, multi-stage centrifugal or multi-stage gear pumps. At the recommended 2% concentration, polar synthetic components in **Hydrolubric 123-B** provide a film on metal surfaces that effectively reduces friction and provides protection against aqueous corrosion. **Hydrolubric 123-B** also contains additives to protect systems from bacterial and fungal infections.

Hydrolubric 123-B is readily dispersible in water and is completely compatible with conventional soluble oils. Being a soluble synthetic, **Hydrolubric 123-B** solutions are also compatible with industrial ethylene and propylene glycol, as well as commercial permanent antifreeze.

Hydrolubric 123-B is biodegradable and offers advantages in handling and disposal.

TYPICAL PHYSICAL PROPERTIES

	<u>Hydrolubric 123-B Concentrate</u>	<u>Hydrolubric 123-B 2% in water</u>
Appearance	Dark Blue Fluid	Clear Blue Solution
Viscosity @ 100°F, SUS	100 max.	32
Specific Gravity @ 60°F	1.016	1.000
pH	10.0	9.1
Pour Point, °F	34	32
Freeze Point, °F	29	32
Flash Point	Not applicable - Product contains water	
Fire Point	Not applicable - Product contains water	



Houghton International Inc.

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CORROSION PROTECTION

- A. Rust Preventive Characteristics (2% Solution)
ASTM D-665A, 120 Hours
Pass - Specimens were clean and bright
- B. Copper Strip Test (2% Solution)
- | | |
|--------------|-----|
| Vapor Phase | 1 b |
| Liquid Phase | 1 b |

MICROBIOLOGICAL DATA - GROWTH TEST

<u>Bacteria</u>	<u>Initial</u>	<u>3 Days</u>	<u>5 Days</u>
2% Hydrolubric 123-B	0.75 x 10 ⁶ /ml		<100/ml

Fungi

2% Hydrolubric 123-B	25,000/ml	<100/ml	<10/ml
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ANTIFREEZE PROTECTION

<u>% Ethylene Glycol or Permanent Anti-freeze</u>	<u>Freezing Point of Hydrolubric 123-B Solution</u>
20	16°F
30	4°F
40	-11°F
50	-32°F

COMPATIBILITY

Metals

Suited for use in components which have steel, cast iron, copper, brass, bronze and anodized aluminum parts. Avoid zinc, cadmium, lead and magnesium. Cadmium plated parts can be used with this product.

Elastometer Packings and Seals*

Compatible with Buna N, Butyl, EPR, Silicone, Viton and Neoprene elastomers. Not compatible with some polyurethanes.

- * Seal material properties can vary within a classification depending upon compounding techniques. Compounding can enhance or diminish various properties and characteristics. In the case of Buna N, certain formulas will be more resistant to water than others. This can also be said for some of the urethanes. Leather and cork are best avoided. Consult your packing and seal supplier for specific recommendations.

CORNELL FALEX TEST DATA

	HYDROLUBRIC 123-B	
	<u>2% Solution</u>	<u>5% Solution</u>
Passing, load, lbs.	3000	3500
Failure, load, lbs.	3250	3750

PRODUCT SHELF LIFE

Under normal conditions, the recommended shelf life for **Hydrolubric 123-B** is six (6) months.

PACKAGING

Hydrolubric 123-B is available for shipment in 55 (U.S.) gallon drums and in bulk quantities.

SHIPPING CLASSIFICATION

Hydraulic Systems Fluid, other than Petroleum

STORAGE/HANDLING/DISPOSABILITY

No health or safety hazards exist when **Hydrolubric 123-B** is stored, used and disposed of in accordance with instructions given on the Material Safety Data Sheet for this product.

WARRANTY

The information given here is considered to be correct and is offered for your consideration, investigation and verification. No warranties are expressed or implied, since the use of our products is beyond our control. Statements concerning the use of Houghton products are not to be construed as recommending the infringement of any patent.

EXPORT STATEMENT

This commodity and its technology are subject to the export control laws and regulations of the United States Government. Buyer agrees that it shall not make any disposition, by way of export, diversion, transshipment, re-export or otherwise, except as expressly permitted under United States law.

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