

# PhyMet Inc., Manufacturers of MICROPOLY Lubricants®

—Stop Bearing Failures And Reduce Delays—

FOOD PROCESSING

Micropoly® is an oil saturated polymer lubricant that helps stop bearing failures and reduces delays caused by equipment breakdown. Micropoly Lubricants® are a cost efficient, solid idea for lubrication.

## It's a Simple Idea...

Both H-1 and H-2 Micropoly Lubricants® meet FDA specifications and have been approved by USDA and by Agriculture-Canada for use in food processing equipment.

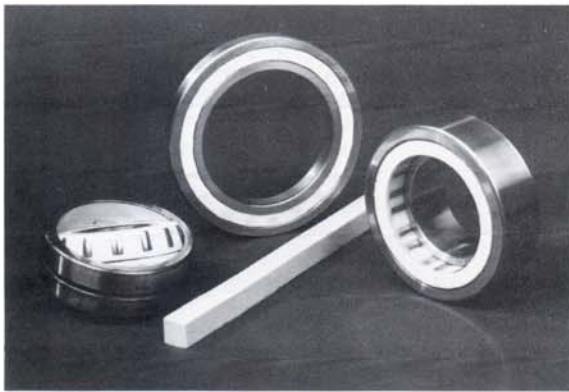
- It's a solid but oily porous polymer.
- It fills all of the bearing cavities.
- It can also be molded into various shapes although it is not meant to replace a bearing.
- It releases lubrication while the bearing is operating.
- It then partially reabsorbs the excess lubricant leaving a thin film of oil for protection.

## Typical Applications

- Flaking rolls
- Overhead and in-floor conveyors
- Coating lines
- Cart wheel bearings
- Beverage, can making, and bottling operations
- Paddle aerators
- Packaging equipment

## A Tough Problem Solver

Micropoly Lubricants® can handle a variety of applications and helps control two big problems oil and grease commonly have; contamination and leakage.



### Sales Representatives located in:

Atlanta	Detroit	Philadelphia	Seattle
Chicago	Los Angeles	Dallas	Hartford
Pittsburgh	Ft. Wayne	Minneapolis	Denver

**Φ PhyMet Inc.**

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## Custom Packed For You

In some applications where a high degree of moisture is present it may be advisable to have seals reinstalled in the bearing. Please contact us to discuss first-time applications regarding any specific limitations.

It is important to keep in mind that there are limiting speeds for Micropoly® filled bearings. The following chart should assist in determining the allowable speed for a particular application.

Due to Micropoly's® solid qualities and its effect on improved housekeeping several large food processors have requested that bearings filled with Micropoly® be specified for equipment used in their process.

### SPEED CHART\*

RPM = Ndm divided by 1/2 (Bore + O.D.) in mm.

Bearing Type	Maximum Ndm
Single row deep groove ball	300,000
Ball with plastic cage **	40,000
Double row deep groove ball	150,000
Angular contact ball	150,000
Self-aligning ball	150,000
Cylindrical roller	150,000
Spherical roller	85,000
Tapered roller and roller thrust	45,000

\* NOTE—If bearings are used in pairs, the maximum RPM is halved. This also applies to double tapered bearings

\*\* NOTE—There are special circumstances which may effect the performance of an application when dealing with plastic type cages. Please review each application with PhyMet personnel.

These values are based upon normal ambient operating temperatures. As operating temperatures increase, the maximum operating speed may have to be decreased to keep the bearing below 200° F, which is the desired maximum continuous operating temperature.

## Warranty

PhyMet warrants that Micropoly® manufactured by it will be as specified and will be free from defects in material and workmanship. **PhyMet does not warrant fitness for a particular purpose.** For this reason, it is strongly recommended that new applications be discussed with PhyMet personnel, and that small quantity trials be conducted prior to production orders.

### Your Micropoly® Representative:

**For immediate assistance, contact:** Gary Dexheimer, Sales Manager; 4835 Aboite Lake Drive; Fort Wayne, Indiana 46804; 219/436-1970. **OR** Bill Minck, President; PhyMet Inc. 513/743-8061; 800/8-PHYMET.