

# Focus Polysurf LRP

## PRODUCT DESCRIPTION

**Polysurf LRP** is an additive package that simplifies the blending of synthetic metalworking lubricants. By packaging several high performance components together at optimized ratios, lubricant manufacturers can reduce inventory complexity and increase formulating flexibility. **Polysurf LRP** is a complex mixture of high performance lubricity and corrosion inhibitors that can be used to formulate water-based synthetic machining and grinding fluids. This product utilizes chemistry that is both extremely low foaming and very hard water stable. **Polysurf LRP** does not contain any chlorine, sulfur or phosphorus chemistry. It is free of secondary amines and is naturally bioresistant.

Using **Polysurf LRP**, a transparent true solution with good tramp oil rejection properties can be formulated. It is recommended that this product be cutback with water at a ratio of 50/50. Additional ingredients such as extreme pressure additives (e.g., Focus Ester PE 2050), supplemental lubricity components, bactericide/fungicides, or dyes can be added as desired.

## BENEFITS

- A highly concentrated additive package that simplifies the blending of synthetic metalworking coolants and reduces inventory complexity
- Outstanding corrosion inhibition performance
- Excellent lubricity
- Extremely low foaming
- Resistant to tramp oil contamination
- Inherently resistant to bacteria

## TYPICAL PROPERTIES

Feature	Unit	Standard Value
Appearance @ 25 °C	-	Clear liquid
Specific gravity @ 25 °C	-	1.08
pH, 5% aqueous	-	9.4
Acid value	mg KOH/g	90
Alkalinity value	mg KOH/g	195

## PACKAGING

Packaging	Description	Net Weight
Drums	55-gallon non-returnable	485 lbs.

## HANDLING, SAFETY, HEALTH AND ENVIRONMENT

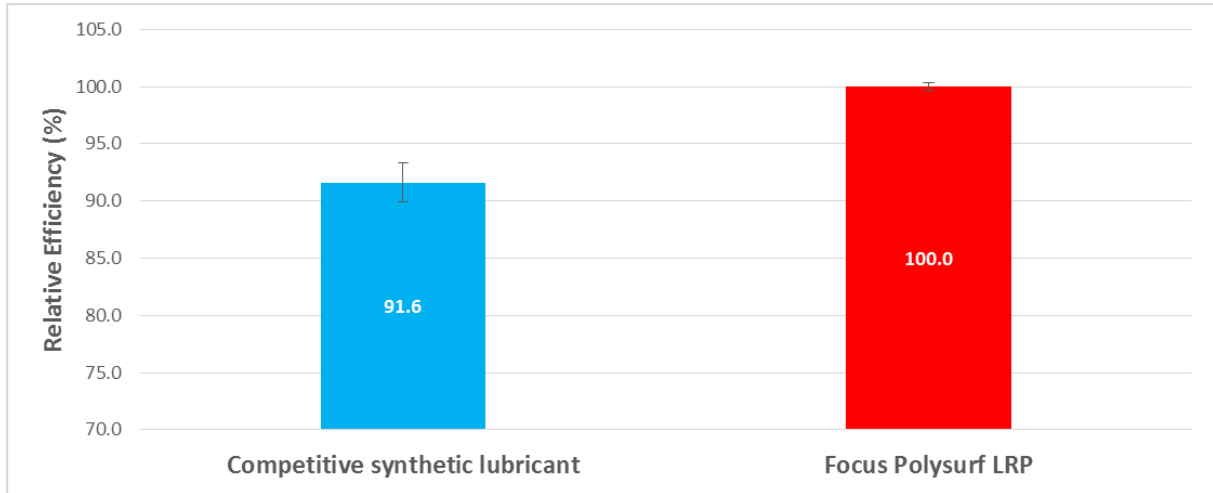
See safety data sheet

NOTE: All statements, information, and data that are given in this bulletin are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied on our part. Because we have no control over the matter in which our products may be used, we cannot be responsible for the results in customers' processes.

# Focus Polysurf LRP

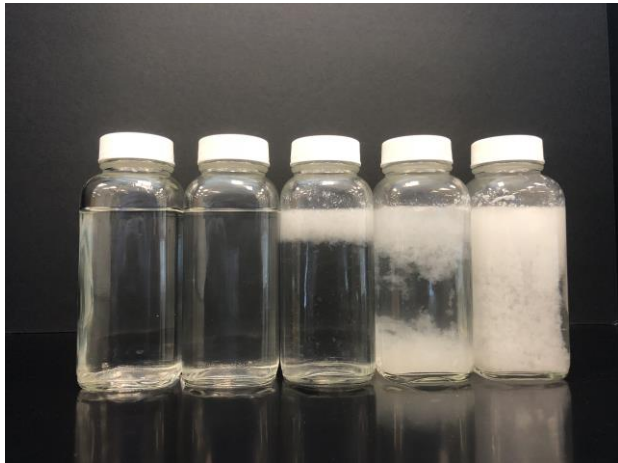
Comparative testing to competitive material was carried out using a 50/50 dilution of Focus Polysurf LRP in distilled water.

## MICROTAP LUBRICATION TEST

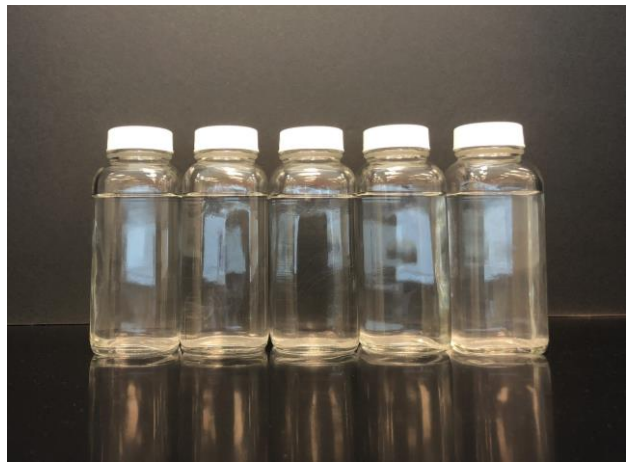


Relative Efficiency on 1018 Steel by Microtap  
7% dilution in water

## HARD WATER TEST



**Competitive synthetic lubricant**  
7% - In 200, 400, 600, 1000, and 5000 ppm water



**Focus Polysurf LRP**  
7% - In 200, 400, 600, 1000, and 5000 ppm water

# Focus Polysurf LRP

## CORROSION INHIBITION TESTING

**2%  
Competitive  
synthetic  
lubricant**

**2% - Polysurf  
LRP**



**Hardness (ppm)**