



## FLUID TECHNOLOGY

### PROTECH EP 1000

**SEMI-SYNTHETIC METALWORKING FLUID:**

**HIGH PERFORMANCE FOR ALL METALS (CONTAINS CHLORINE)**

PROTECH EP 1000 is a high performance versatile EP (extreme pressure) fortified semi-synthetic based metalworking fluid designed specifically for demanding precision applications of both ferrous and aluminum alloys. Formulated with the latest chemical innovations for lubricity, wetting, and corrosion prevention, PROTECH EP 1000 sets the standard for superior performance. The unique emulsifier and detergency package prevents bacterial problems and hard water soap formation typical of traditional soluble oil metalworking fluids. PROTECH EP 1000 also utilizes a very high viscosity base oil for increased boundary film lubrication. When cleanliness and performance are your priorities, PROTECH EP 1000 is the product of choice.

#### FEATURED BENEFITS:

- **Sulfonate Free Chemistry:** Will not produce "Monday Morning Odors."  
The biostable chemistry maintains the pH eliminating objectionable odors.
- **Hard Water Stable:** PROTECH EP 1000 has twice the hard water stability of traditional soluble oils thereby maintaining a stable emulsion for better wetting and lubricity.
- **Reduced Consumption:** A stable tight emulsion reduces usage from carry out up to 20%.
- **Additive Independent:** No need for tank side pH buffers, emulsifiers, or costly and hazardous biocides.
- **Low Oil Content:** PROTECH EP 1000 has half the oil of a soluble reducing mist and oily residues on machine surfaces and windows.

#### APPLICATION/USAGE:

PROTECH EP 1000 is recommended for general purpose and high performance applications when sawing, machining and grinding ferrous and non-ferrous alloys.

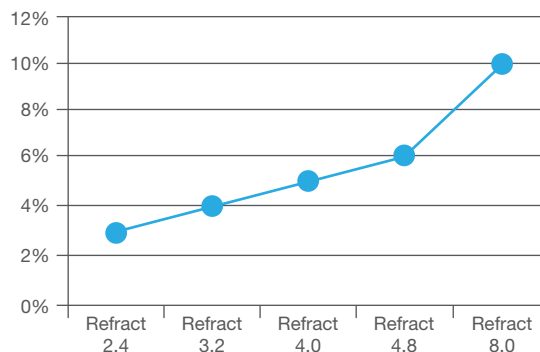
#### MIXING INFORMATION:

PROTECH EP 1000 metalworking fluid is to be mixed with water for use. Always add product concentrate to the water, not water to product concentrate. Product concentration can easily be monitored by refractometer.

#### RECOMMENDED MIXED PERCENTAGE BY APPLICATION

OPERATION	CARBON STEELS, CAST IRON	HIGH ALLOY STEELS	ALUMINUM ALLOYS
Milling, Drilling, Turning	4-5%	4-5%	4-5%
Sawing, Reaming, Light Duty Broaching, Tapping	4-6%	5-6%	5-8%
Grinding: I.D., O.D.	4-5%	4-5%	5-6%

#### CONCENTRATE % VS. REFRACT SCALE



## PRODUCT SPECIFICATIONS:

Fluid Type ..... Semi-Synthetic  
Appearance/Odor ..... Amber Liquid / Mild Chemical Color  
Weight, lb/gal., 60°F (15.6°C) ..... 8.40

*Product Separates upon freezing.*

*Thaw completely at room temperature and mix thoroughly prior to use.*

pH (5% dilution) ..... 9.0

## SHIPPING-AVAILABILITY:

PROTECH EP 1000 is available in 4/1 gallon bottles (case),  
5 gallon pails, 55 gallon drums, 275 gallon totes, and bulk quantities.

## SAFETY-DISPOSAL:

Emergency and First Aid Procedures

- **Eye Contact:** If splashed into the eyes, flush with clean water for 15 minutes or until irritation subsides. If irritation persists, call a physician.
- **Skin Contact:** In case of contact, remove any contaminated clothing and wash the skin thoroughly with mild soap and water. If irritation persists, call a physician.
- **Inhalation:** Remove to fresh air. Call a physician immediately.
- **Ingestion:** If ingested, call a physician immediately.

Further information regarding health and safety is available upon request.

PROTECH EP 1000 should be stored indoors. PROTECH EP 1000 contains no harmful or harsh ingredients. All products used in PROTECH EP 1000 have been registered with the federal government and have assigned CAS numbers. Dispose of in accordance with local authority requirements. Protective eye wear and chemical resistant gloves are recommended when handling PROTECH EP 1000 concentrate.

## DOT LABELING REQUIREMENTS:

Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101): Not a Hazardous Material.

Hazardous Class (49 CFR 172.101): Not Applicable.



# Eberle

FLUID TECHNOLOGY

**AUTHORIZED DISTRIBUTOR:**

6311 RONALD REAGAN DR, SUITE 174  
LAKE SAINT LOUIS, MO 63367  
(314) 406 1102 MAIN  
WWW.EBERLEFLUIDTECHNOLOGY.COM

INTELLIGENT SOLUTIONS  
MADE BY

# Eberle

*Note: This information is presented in good faith, but no warranty, express or implied. The final determination of the suitability of the products for the application contemplated by the user is the sole responsibility of the buyer.*