



## Technical Data Sheet

**Name:** Precision Tech 8005

**Revision Date:** 4/17/2018 – R1

### Precision Tech 8005

SEMI-SYNTHETIC METALWORKING FLUID WITH EP

#### DESCRIPTION

Precision Tech 8005 is a high-performance, semi-synthetic metalworking fluid. This water extendable metal removal fluid is a high water, low mineral oil, micro-emulsion. It is designed with a combination of extreme pressure (EP) additives and corrosion inhibitors to improve tool life, surface finish, and increase speeds. The high water and specialized lubricity package improves cooling at the work zone while maintaining the proper boundary film lubricity. The reduced metal-to-metal contact, reduced heat, and proper film strength optimizes tool life through proper chip formation, reduced work hardening and increased heat removal from the cut zone. Precision Tech 8005 is designed with a versatile bio-dynamic protection package. This enables the working fluid in the sump to resist and react against bacteria and fungi growth.

#### FEATURES & BENEFITS

- EP Fortified
- Low to no foam
- Extended tool life with increased production rates
- Best in class resistance to bacteria growth
- Exceptional tramp oil rejection
- Outstanding surface finish
- Non-irritating to operators' skin

#### HEALTH & SAFETY

See the most recent SDS which is available directly from Precision Fluids, your local representative or authorized distributor. Precision Fluids uses only raw materials not listed as carcinogenic by IRAC.

#### PROPERTIES

Appearance:	Slightly Viscous Liquid
Diluted Appearance:	Translucent Light Blue
Solubility:	Micro-Emulsion
Odor:	Mild Industrial
Specific Gravity:	1.00
Concentrate pH:	9.4
pH, 5 % dilution:	9.3
Freeze/Thaw Cycles:	Passed 3x

#### APPLICATION & USAGE

Precision Fluids recommends using Super Green machine cleaner before adding Precision Tech 8005 to a machine.

The recommended concentration for Precision Tech 8005 is 5-10% for optimum results. However, results for any operation can only be determined through testing.

Maintaining the coolant at its optimum concentration is achieved through daily refractive index checking.

No special precautions are necessary with respect to seals or valves.

#### REFRACTIVE INDEX MONITORING

2.5 x multiplier

Percentage	Ratio	Refractometer Reading
5	19 to 1	2.0
10	9 to 1	4.0
15	6 to 1	6.0
20	4 to 1	8.0

***Fluid compatibility and machinability should always be tested first; as fluid concentration, metal alloy, and machining operation are variable.***

**Precision Fluids, Inc. • 5230 Brittmoore Rd • Houston, TX 77041  
Phone: 713-896-0606 • Fax: 713-896-0610 • [www.precisionfluids.com](http://www.precisionfluids.com)**