

ROTANIUM®



Overview

Cutting fluids and other types of lubricants are critical to efficient production and high-quality results in all types of machining operations. They affect both tool and machinery life. The wrong cutting fluid can damage tools and machinery.

Why choose ETP® Gold?

ETP® Gold is a proprietary formulation exclusively developed for superior cutting under extreme pressure and temperature conditions. It cools the workpiece and cutting tool while protecting against corrosion on the machine tool. ETP® Gold is safe for use on all types of metal including aluminum, stainless steel and titanium.

Features/Benefits



ETP® General-Purpose

ETP® General-Purpose is a special heavy-duty formula designed to provide lubrication under extreme pressure and temperature applications. The handy squeeze bottle allows the application of ETP® directly onto the workpiece. It is ideal for short setups or small jobs.

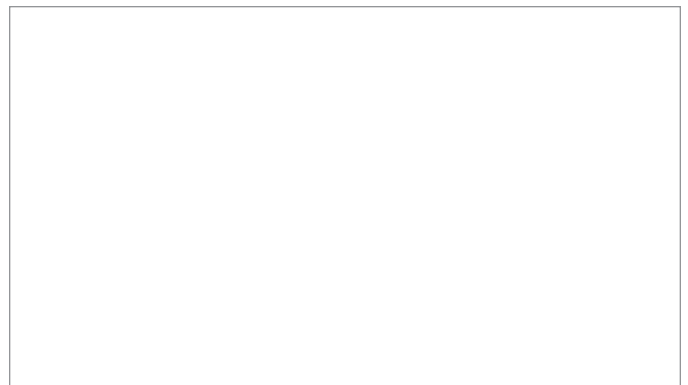
ETP® Gold Aerosol

ETP® Gold Aerosol has a special low viscosity formulation that allows it to quickly penetrate the workpiece, where it clings to the cutting tool and the work surface. It is safe for use on all metals and will not cause rust or discoloration of the workpiece. It is fitted with an all-position spray valve for easier application and less waste. This product does not contain 1,1,1-Trichloroethane.



Pumpable ETP® Gold

Pumpable ETP® Gold reduces the costs involved with ordinary cutting fluids and improves production speed and quality. It comes ready to use right out of the container. This eliminates the possibility of “scrap” or damaged tools and machinery caused by incorrect mixing. ETP® Gold’s formula remains in the solution, not in suspension. Residual “tramp” oils picked up in circulation remain in solution and will not separate as they do in standard cutting fluids. This provides additional lubrication. It will not cause machine tool lubrication washout, unlike ordinary water-soluble cutting fluids which remove lubricants from cutting tools and machinery causing premature wear. ETP® Gold is effective and efficient in virtually all applications.



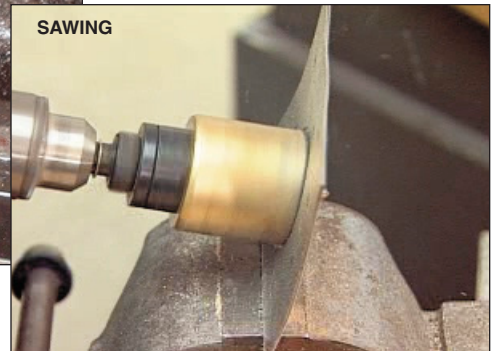
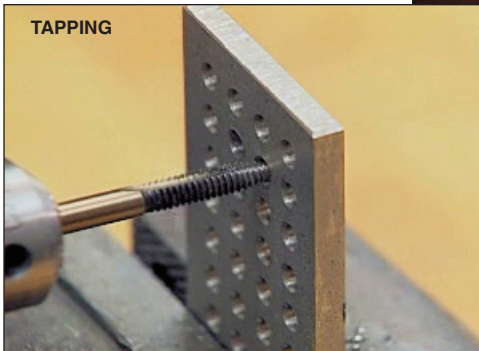
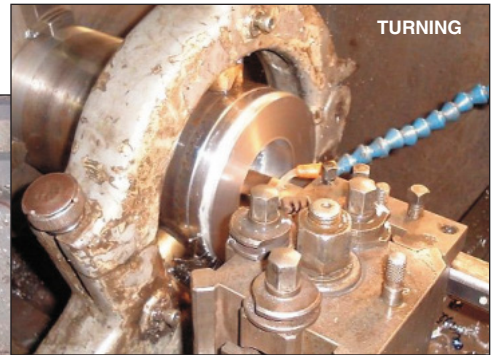
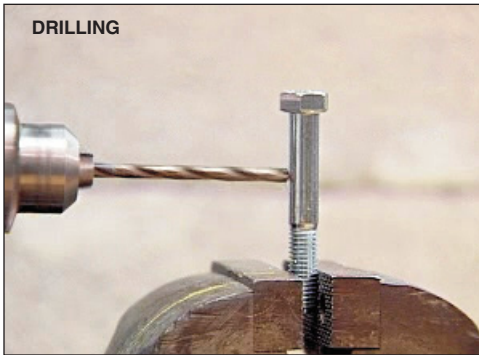
Specifications

- Appearance and Odor: Natural golden liquid with light odor
 - pH (Ref. ASTM D-70): 9.0 ±0.3
 - Viscosity (Brookfield) (Ref. ASTM D-1084): 140 – 350 cps
 - Specific Gravity (Ref. ASTM D-891): 1.14 ±0.05
- Flash Point: 212°F (100°C)
Operating Temperature: -10°F to +480°F (-12°C to +209°C)

Applications

ETP® Gold can be used in any application where a cutting tool is used. Some market examples include, but are not limited to:

- Production machine shops
- Building maintenance
- Sheet metal fabricators
- Fleet and truck shops
- Automotive repair shops
- Job shops



**Suggested Material/
 Cutting Fluid Usages**

Listed below are materials which can be machined with ETP® Gold. For comparison purposes, traditional fluids are also shown. Note that ETP® Gold is superior to all traditional cutting fluids as it is compatible with a wider range of materials, virtually eliminating the need to change fluids when the job requirements change.

	ETP® Gold	Kerosene	Kerosene and Lard Oil	Kerosene and Mineral Lard Oil	Lard Oil	Mineral Lard Oil	Soluble Oil	Sulfurized Oil	Dry Only	Chlorinated Mineral Oil	Turpentine
Aluminum and Alloys	Green	Green	Green				Green				
Brass and Bronze	Green			Green			Green				
Magnesium and Alloys	Green	Green		Green		Green					
Copper and Alloys	Green			Green			Green				
Monel	Green				Green	Green					
Mild Steel	Green					Green					
Alloy Steel	Green							Green			
Steel Forgings	Green				Green			Green			
Cast Steel	Green				Green		Green				
Wrought Iron	Green						Green				
High Tensile Steel	Green						Green				
Cast Iron	Green										
Malleable Steel	Green						Green				
Stainless Steel	Green						Green				
Titanium Alloys	Green						Green			Green	Green
Tool Steel	Green	Green		Green	1	Green					
Magnetic Steel	Green				Green						Green
Nickel Steel	Green				Green						
Abrasive Plastic	Green										
Asbestos									2		Green
Wood								Green			
Hard Rubber								Green			

1 – Under HRC 32

2 – Turpentine sometimes used.

ETP® Gold is not recommended for grinding operations.