



# CITGO® Autokut® Tri-Purpose

## OVERVIEW



- A transparent, non-corrosive, multi-purpose cutting oil.
- Equally effective for use as a cutting oil and as a lubricant in screw machines and other automatic type machine tools.

## FEATURES & BENEFITS



- Tri-functional; can be used as a gear lubricant, cutting oil, and hydraulic fluid.
- Tri-functionality reduces costs by consolidating inventory and minimizing cross-contamination risks.
- Contains a stable oil mist suppressant to improve working environment and worker safety.
- Contains advanced lubrication and anti-weld components.
- Compatible with most metals.
- Chlorine-free.
- Light color aids visibility of operation and is non-staining on ferrous and non-ferrous metals.
- Premium rust and oxidation protection.
- Improves productivity and lowers costs of operation, with improved tool life and surface finish.
- Benefits environmental needs and reduces disposal costs.
- Versatility in gear and hydraulic applications.

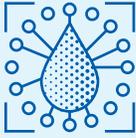


## APPLICATIONS



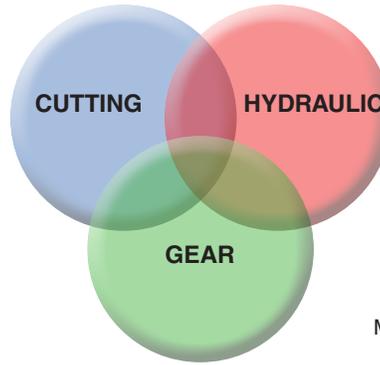
- Recommended as a cutting oil, hydraulic fluid and a gear lubricant.
- Designed for automatic screw machines.
- Recommended for machining non-ferrous metals and ferrous alloys having machinability rating of approximately 50% or higher.
- Can be used in automatic screw machines and in similar equipment for: drilling, counter-boring, turning, shaving, reaming, tapping, forming, and stamping.

**APPLICATIONS**



**Material Compatibility**

	Recommended	Highly Recommended
<b>P - Steels</b>		
<b>M - Stainless Steel</b>		
<b>K - Cast Iron</b>		
<b>N - Non-ferrous</b>		



**PROPERTIES**



**Typical Properties for CITGO Autokut Tri-Purpose:**

<b>Material Code</b>	<b>639450001</b>
Gravity, ASTM D4052, °API	32.5
Gravity, Specific, ASTM D1298, 60°F	0.863
Density, lb/gal	7.2
Flash Point, ASTM D92, °F (°C)	406 (208)
Viscosity ASTM D445	
cSt at 40°C	29.8
cSt at 100°C	5.3
Viscosity ASTM D2161	
SUS at 100°F	154
SUS at 210°F	44
Color, ASTM D1500	2.5
Pour Point, ASTM D97, °F (°C)	-38 (-39)
Copper Corrosion, ASTM D130, 3 hrs at 210°F	1B
Active Sulfur	No
Phosphorus	No
Lubricity Additive	Yes

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