

J-Cut 5542

High performance precision cutting oil

Description

J-Cut 5542 was developed to meet the demands generated by high performance screw machines. J-Cut 5542 effectively penetrates the tool and work piece interface providing excellent surface finishes and tool life. This product is extremely high performance and is easily capable of performing gun drilling and form tapping on stainless and other difficult to machine alloys without the use of additional additives.

Performance Benefits

- High additive content eliminates the need for tank-side additives such as tap ease
- Multi-metal capabilities – Does not stain aluminum, copper, brass or bronze
- Excellent performance on hard and soft metals
- High flash point, good oxidation stability and high viscosity index
- Highly effective in Giddings and Lewis CNC machining centers

Recommended Applications

	Cast Iron	Low-medium alloy steel	High alloyed steel/nickel-chromium alloys	Titanium alloys	Aluminum alloys	Yellow metals
Honing/Superfinishing	-	-	-	-	-	-
Grinding	X	X	X	X	-	-
Drilling	X	X	X	X	X	X
Broaching/Gear manufacturing	X	X	X	X	X	X
General machining	X	X	X	X	X	X

Characteristics

Properties	Unit	Test Method	Value
Appearance	-	Visual	Light amber liquid
Density @ 15°C	Lbs/gal	-	7.6
Viscosity @ 40°C	cSt	ASTM D446	31
Viscosity @ 100°F	SUS	ASTM D446	150
Flash Point	°F	ASTM D92	>350°F
Copper corrosion	3 hr at 100°C	ASTM D130	1b

	Ester	Active Sulfur	Inactive Sulfur	Phosphorous	Calcium	Chlorine	Zinc
Additives	X	-	X	-	-	X	-