

J-Cut NCL-18

Dual Purpose cutting oil

Description

J-Cut NCL-18 is a moderate to heavy duty dual purpose cutting oil developed to machine a wide variety of metals without the need for chlorinated additives. The extreme pressure lubricants are balanced to provide ease of cut with minimal tool wear. An effective anti-mist additive is incorporated into the **J-Cut NCL-18** to reduce misting of the cutting oil during high speed machining operations.

Performance Benefits

- High flash point, good oxidation stability and high viscosity index
- Low viscosity is suitable for high pressure applications
- Anti-wear properties
- Functions as a machine lubricant and low pressure hydraulic oil
- Compatible with J-Cut NCL-20

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	X
Drilling	-	X	X	X	X	X
Broaching/Gear manufacturing	-	X	X	X	X	X
General machining	-	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	32
Viscosity @ 100°F	SUS	ASTM D446	155
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	-	-	-