



# LA 232L NEAT CUTTING OIL

ISO 15

## DESCRIPTION

LA 232 ISO 15 is a low viscosity neat cutting oil, specially formulated with lubricity, and extreme pressure additives, to provide excellent performance in difficult machining operations on a wide range of materials.

## APPLICATION

LA 232 ISO 15 has been designed for drilling, threading and deep hole drilling of cast iron, steels, high alloy and stainless steels. It is also suitable for use on difficult to machine alloys such as inconel. It can also be used in general machining applications as well as for tapping, and gear cutting operations.

LA 232 ISO 15 contains active sulphur additives, and can cause staining, and is therefore not recommended for use on copper and its alloys.

## BENEFITS

- High performance additive technology provides consistently high surface finish, dimensional accuracy and increased tool life, delivering lower process operating costs.
- Excellent anti chip welding and flushing properties, ensures problem free operations

	Cast Iron	Low – Medium Alloyed Steel	High Alloyed steel/ nickel-chromium alloys	Titanium Alloys	Aluminium Alloys	Yellow metals
Honing/Superfinishing	✓	✓	✓	✓	✓	✓
Grinding	-	-	-	-	-	-
Drilling/Deep Hole Drilling	✓	✓	✓	-	✓	✓
Broaching/Gear Cutting	✓	✓	✓	-	-	-
General Machining	✓	✓	✓	-	✓	✓

## FEATURES & OPERATIONAL BENEFITS

FEATURES	ADVANTAGES AND OPERATIONAL BENEFITS
Misting applications	Increase equipment cooling effectiveness in high temperature machining operations Reduce oil consumption volatility
High Viscosity Index	Absence of wax in base oils Performs in both low and high temperatures
Effective cooling	Lowers friction and increase efficiency in sliding and cutting mechanisms Reduces the effects of heat grab and micro welding.
High load cutting efficiency	Protects metal surfaces and cutting tools under heavy loads.
Balanced additive chemistry	Delivers exceptional performance in relation to rust and corrosion prevention, foam control and air release performance. Facilitate reduced maintenance operation in a wide range of cutting tip replacement.

## TYPICAL PROPERTIES

LA 232L NEAT CUTTING OIL		
ISO Viscosity Grade		15
Product Code		61232L
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Viscosity,		
cSt, @ 40°C	ASTM D445	15
cSt @ 100°C	ASTM D445	3.2
Viscosity Index,	ASTM D2270	114
Density, @ 20°C	ASTM D1298	0.889
Appearance, Visual		Amber
Pour Point, °C,	ASTM D5950	-39
Flash Point, °C,	ASTM D92	>180
Copper Corrosion, 3 hr @ 100°C	ASTM D130	4C