

Water Soluble Metalworking Fluids (Bio-Static Type)

**MORESCO  
 TOOLMATE**

**CUTTING STAR 9100**

Cutting Star 9100 is a long life type water soluble cutting fluid, developed for aerospace parts such as titanium and aluminum alloys.

Characteristics

**1. Excellent lubricity.**

Wonderful finish of the product and the extension of service life of the tools.  
 Good for aluminum alloy burnishing reamers, stainless steel tapping, and processing of titanium alloys.

**2. Excellent anti-corrosion effect to Non-ferrous metal.**

Excellent in anti-corrosion to Non-ferrous metal (especially aluminum alloys), preventing the change of color in work materials.

**3. Excellent hard water stability.**

provides long coolant life without emulsion break problem caused by metal-ion.

**4. Non Choline, PRTR free**

An environmentally friendly coolant:  
 Choline-based extreme pressure additives is not added.

Properties

Undiluted Fluid

		General Properties
JIS Standard Group		A 1-1
Appearance		Light Brown
Density	15°C g/cm <sup>3</sup>	0.96
Viscosity	40°C mm <sup>2</sup> /s	90
Flash Point	°C	None



Diluted Fluid (x20)

Appearance	White Emulsion
pH	9.3



Applications

Machining processing of: Titanium, Aluminum and Steel Alloy etc.  
 Brix F = 1.1 (5wt%=4.5Brix%, 10wt%= 9.1Brix%)

Packages

18L Square Can , 200L Steel Drum

Hazardous

Non Hazardous (Japanese Fire Defense Law)

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