



## Introduction to Water-Soluble Cutting Oil and Grinding Oil

### Water-soluble Cutting oil/Grinding oil

The UC series is available in a wide variety of types, from emulsion to soluble to chemical types, for general use. The S series has chemical type grinding oil and emulsion type cutting oil. The TC series is designed with the motto of being mild and minimizing irritation.

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### Representative products

- Emulsion type

#### UC-178AE Water-soluble cutting oil

Suitable for machining aluminum alloy, alloy steel, and stainless steel. Has excellent liquid stability as a countermeasure against hard water and can also be used with high pressure coolant.

#### UC-192M Water-soluble cutting oil

General-purpose, low-cost type, compatible with NC lathes and MCs.

- Soluble type

#### UC-1230DF Water-soluble cutting oil

General cutting of cast iron and steel. Micro emulsion type with excellent rust prevention and less stickiness. UC1230DF is a product of UC-1230R that is not using diethanolamine.

- Chemical Solution Type

#### S-1603DF Water-soluble grinding oil

Proven track record for grinding steel, flat, cylindrical (outside of circle) centerless. In particular, the oil has antifoaming properties, low stickiness, and has been used in many applications such as mold grinding.

#### TC-354P Water-soluble cutting oil

Type that can be used for both cutting and grinding steel. Compared to conventional types, this type has a lower pH and is less irritating. Has excellent rot resistance.

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