

# Synthetic grinding fluid

## ● Performance Overview

Maxtop Synthetic grinding fluid (MTSGF) is a high-performance cooling and lubricating fluid, composed of cleaning agents, penetrants, extreme pressure agents, lubricants, anti-rust additives, etc. It has excellent cooling, cleaning and lubricating properties. It can quickly lower the temperature of the workpiece, wash away the ground material, and form a lubricating film at the interface between the workpiece and the grinding wheel, reducing friction and wear. In addition, synthetic grinding fluid also has excellent anti-rust performance and transparency, making it easy to observe the processing situation. It can improve the surface finish of the workpiece, does not stick to the grinding wheel, and reduces the wear of the grinding wheel.

## ● Features

01

It has excellent cleaning, cooling and sedimentation properties, good anti-rust performance, and has a good protective function for workpieces and machines .wheels.

02

It has very low foam and excellent lubrication performance, and can meet the grinding needs of metal and glass .from overheating and deformation.

03

It has good sedimentation performance, high processing efficiency, good protection function for the grinding head, does not contain mineral oil, does not stink, has particularly good stability and long service life .

04

It does not contain toxic substances such as nitrite, is environmentally friendly and biodegradable, and does not hurt your hands.



## ● Application Scenario

1. Various metal materials: Widely applied in grinding processing of various metal materials such as hard alloys, ferrous metals (such as cast iron, carbon steel), aluminum alloys, copper, stainless steel, etc., to enhance processing efficiency and quality.
2. Grinding processing of non-metallic materials: It can also be used for grinding processing of non-metallic materials such as ceramics and stones, meeting various processing requirements.
3. Various glass materials: Suitable for grinding processing of various glass materials such as glass, resin glass, optical glass, flat glass, camera lenses, spectacle lenses, mobile phone covers, sapphire glass, etc., providing excellent cooling and lubrication effects.

# Synthetic grinding fluid performance

Project		Quality indicators
Appearance		Uniform and transparent
Kinematic viscosity (40 °C ), mm <sup>2</sup> /s	not more than	9~13
Flash point (open), °C	not less than	130
Pour point/ °C	not higher than	-15
Corrosion test (copper sheet, 100 °C , 3h), level	not more than	1
P B value/N	not less than	883
PD value /N	not less than	1960



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