Tempering oil

Maxtop

Performance Overview x

Maxtop MTTO is made of highly refined high flash point mineral oil as base oil, adding high temperature antioxidant and other high quality functional additives. Designed for metal heat treatment tempering process, providing excellent cooling performance and thermal stability. Inhibit sludge generation and prolong oil change cycle. High temperature stability, suitable for high-load precision parts, balance cooling efficiency and flow.





Features

01

It has good thermal stability and is not easy to coke. The appropriate cooling rate can effectively eliminate the internal stress of the workpiece.

03

After tempering, the workpiece has uniform hardness and bright surface.

05

After tempering, the surface is bright without rust spots, and the hardness uniformity is increased by 20%.

02

It has the characteristics of high flash point and low volatility, and is not easy to evaporate and form smoke, creating a good use environment.

04

It has good thermal oxidation stability, is not easy to form sludge and oil residue, and has a long service life.

06

The low volatile formula reduces oil mist diffusion and keeps the workshop air clean. • Application Scenario Tempering oil is suitable for tempering parts after quenching in closed tempering furnaces. It is widely used in the tempering process of bearings, watches, chains and other industries.





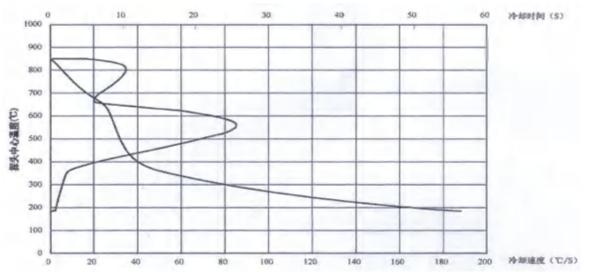
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Tempering oil performance indicators

Project	Quality indicators			
, roject			No. 1	No. 2
Kinematic viscosity,mm2/s	40°C	not more than	-	-
	100°C	not more than	30	50
Flash point (open), °C	not less than	230	280	
Flash point, °C	not less than	250	310	
Moisture, %	not more than	trace	trace	
Pour point, °C	not higher than	-5	-5	
Corrosion (copper sheet, 100°C,	not greater than	1	1	
Brightness, level	not greater than	-	-	
Saturated vapor pressure (20°C)	not higher than	-	-	
Thermal Viscosity	Viscosity		1.4	1.4
oxidation stability Residual carb	oon increase, %	not more than	1.5	1.5

Cooling characteristic curve of tempering oil



Cooling characteristic data of tempering oil

Medium Max		Maximum cooling rate Corresponding	300 ℃	850°C to below temperature time			Peculiarity	Peculiarity	
temperature (Cooling rate	temperature	Cooling rate	600°C	400°C	200°C	temperature		
80	85.22	556.10	5.53	8.40	12.10	50.10	668.16	8.30	
Note: The unit of time is S, the unit of speed is C /S, and the unit of temperature is C									

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