Rapid quenching oil

Performance Overview v

Maxtop

Maxtop Rapid quenching oil (MTRQO) is developed by highly refined low viscosity high flash point distillate oil, adding coolant, antioxidant, carbon inhibitor, preservative and other additives. Meet the relevant standards of the heat treatment industry, specially designed for the high demand metal material quenching process, providing excellent cooling performance and surface quality. Thermal oxidation stability: it is not easy to oxidize at high temperature, and the service life is extended by more than 50%. Better temperature resistance, suitable for extreme high temperature or low temperature environment.

🛛 Features 🔨

01

The steam film stage is short, the high temperature cooling capacity is large, and it has strong hardening and hardening capabilities. The oil is less consumed, easy to clean, and the cost of use is low.

03

The viscosity remains stable and will not thicken after long-term use. With ultra-long cooling characteristic retention, the performance of Maxtop rapid quenching oil is significantly better than the comprehensive performance of other similar products on the market. Ultra-long service life.

02

Good thermal oxidation stability, stable oil performance and long service life. No sediment and sludge will be generated after long-term use.

04

The oil film is evenly distributed, the internal stress of the workpiece is reduced, and the deformation rate is reduced by 60%. Complex parts processing: mold, crankshaft, camshaft, etc.





Application Scenario \

Rapid quenching oil is suitable for quenching parts such as tempering and carburizing that require high cooling speed, large forgings, large gears and quenching presses in salt bath furnaces, box furnaces, medium furnaces and continuous quenching furnaces.





No. 138, Guanshan Road, Shuangliu District, Chengdu, China (Sichuan) Pilot Free Trade Zone TEL: +8613541155698 EMAIL: maxtop@maxtop-oil.com TEL: +864008330667 Website: www.maxtop-oil.com



Rapid quenching oil performance indicators

Project				Quality indicators
Kinematic viscosity	/, mm2/s	40°C	not more than	26
		100°C	not more than	-
Flash point (open), ℃			not less than	170
Flash point, ℃			not less than	190
Moisture, %			not more than	trace
Pour point, °C			not higher than	-9
Corrosion (copper sheet, 100°C, 3h) level is			not greater than	1
Brightness, level			not greater than	2
Saturated vapor pressure (20°C), kPa			not higher than	-
Thermal	Viscosity		not more than	1.5
oxidation stability	Residual carb	on increase, %	not more than	1.5
cold	Characteristic	temperature (at 80°C),	°C not less than	600
but	800 to 400°C 1	time (at 80°C), s	not more than	4.0
sex	800 to 300°C 1	time (at 80°C), s	not more than	-
able	Characteristic	temperature (at 120°C)	, °C not less than	500

Cooling characteristic curve of rapid quenching medium

