



MASTER
QUENCHING OIL

“Long service life due to excellent oxidation stability”

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MASTER QUENCHING OIL is formulated from highly refined base stocks with inherently high thermal stability to provide rapid heat dissipation.

The quenching of steel involves cooling at a sufficiently fast rate to reach desired hardness and to avoid the formation of soft constituents, cracking or distortion. When steel is quenched, the surface is cooled more rapidly than the center.

By increasing the cooling rate, the center will reach the desired full hardness. Cooling rate can be influenced by steel composition, thickness, type of quenchant, temperature and mechanical characteristics of the quench bath.

APPLICATIONS

- Used for all normal quenching operations on a wide variety of steel to impart the desired hardness to components without distortion
- Used for hardening nuts, bolts, ball bearings and certain types of brake drums as well as many other components manufactured by automobile and light engineering industries

BENEFITS

- ✓ Good quenching characteristics
- ✓ High Flash Point minimizing fire hazards
Low Volatility
- ✓ Long service life due to excellent oxidation stability
- ✓ Imparts uniform hardness without distortion
- ✓ Wide application range

TYPICAL DATA

PHYSICAL CHARACTERISTICS		ISO GRADE/TYPICAL VALUE	
TEST	TEST METHOD	ISO VG22	ISOP VG46
Kinematic Viscosity, cst @ 40 °C	ASTM D-445	22	46
Kinematic Viscosity, cst @ 100 °C	ASTM D-445	4.4	6.89
Viscosity Index	ASTM D-2270	107	104
Flash Point (COC) °C	ASTM D-92	214	224

Packings **205 Ltr.**