

POWEROIL QUENCH MQ 150 MEDIUM FAST MAR QUENCHING OIL

POWEROIL QUENCH MQ 150 medium fast Mar quenching oil, blended with high quality treated base oils having excellent thermal & oxidation Stability & low volatility. The high quenching rate is imparted by using special additive package which provides controlled fast quenching Speed and uniform hardness to the components with minimum distortion

PERFORMANCE STANDARDS: BIS:4543-1977 (Re affirmed 2014), Marquenching Oils

CHARACTERISTICS	POWEROIL QUNECH MQ 150
Appearance	Brown Clear Fluid
Color, ASTM	4.5
Kinematic viscosity@ 40°C, cSt	174.5
Viscosity Index, Min.	95
TAN, mgKOH/gm	0.3
Flash Point, °C (COC)Min.	250
Pour Point, °C, Max.	-6.0

The above properties are typical values and do not constitute specification of the product

APPLICATION:

- Hardening of Medium Carbon and Low Alloy Steels
- Hardening of components subject to distortion ,especially suited for components like Automotive Gears , Blade Steels, complex section of transmissions parts and bearing rings etc
- Hardening of Carburised and carbonitrided components
- Suitable for use in continuous Furnaces, Sealed quench Furnaces and open quench tanks

PERFORMANCE BENEFITS:

- Excellent quenching characteristics
- Excellent Resistance to oxidation and enhanced oil life
- Very Low Sludge formation and minimum carry over
- Reduced consumption due to lower volatility characteristics & Minimum drag out
- Reduced fire hazard due to excellent high temperature characteristics
- Imparts uniform hardness without distortion

RECOMMENDATIONS:

- Optimum working range for oil is 80 - 150 °C
- Avoid entry of water into Storage tank or Quenching bath
- Allow for thermal expansion when filling tank with fresh oil
- Oil surface should be suitably blanketed against oxidation when used above 120 °C
- Periodic product top up/sweetening is essential for successful quenching operation
- Quenching oil must be continuously agitated to provide uniform surface microstructure
- The quenching tank must be periodically cleaned and quench oil filtered to remove the scale and metal contaminants. A 50 micron double- bag filter is recommended for proper maintenance
- Condition monitoring of oil is essential in maintaining optimum performance and the desired quenching qualities of the oil