

## POWEROIL QUENCH MQ 120 MEDIUM FAST MARQUENCHING OIL

**POWEROIL QUENCH MQ 120** is a 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

CHARACTERISTICS	POWEROIL QUNECH MQ 120
Appearance	Clear Liquid
Color, ASTM	D- 2.5
Kinematic viscosity@ 40°C, cSt	66
Viscosity Index, Min.	100
TAN, mgKOH/gm	0.2
Flash Point, °C (COC)Min.	236
Pour Point, °C, Max.	-6

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

### APPLICATION:

- Mar quenching of Medium Carbon and Low Alloy Steels
- Mar quenching of components subject to distortion ,especially suited for components like Gears,
- Blade Steels, complex section of transmissions parts and bearing rings etc
- Mar quenching 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
- Reduced consumption due to lower volatility characteristics & Minimum drag out
- Reduced fire hazard due to excellent high temperature characteristics
- Imparts uniform hardness without distortion



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Powering Ahead

**RECOMMENDATIONS:**

- Optimum working range for oil is 80 - 130 °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