QUENCHING OIL

ISO 100

REXOIL QUENCHING OIL ISO 100 is a premium-quality, mineral oil-based quenching fluid specifically formulated for controlled heat treatment of ferrous metals. It is manufactured from highly refined paraffinic base oils and carefully selected performance additives to provide excellent cooling characteristics, high oxidation stability, and long service life while minimizing sludge and varnish formation.

The product is designed to deliver consistent quenching performance, ensuring uniform hardness, reduced distortion, and minimized cracking of heat-treated components. Its controlled cooling rate provides an ideal balance between rapid initial cooling and slower convection cooling, making it suitable for a wide range of heat treatment operations.

REXOIL QUENCHING OIL ISO 100 is recommended for use in open and closed quench tanks for the heat treatment of carbon steels, alloy steels, forgings, gears, bearings, springs, shafts, machine components, fasteners, automotive parts, and general engineering components. It is suitable for induction hardening, carburizing, carbonitriding, and conventional furnace quenching processes where a medium-speed quenching oil is required.

Features and Benefits

- Excellent cooling performance for consistent and uniform hardening.
- Minimizes distortion and reduces the risk of cracking during quenching.
- High oxidation and thermal stability for extended service life.
- Low sludge and varnish formation, helping maintain clean quench systems.
- Optimized cooling curve provides reliable metallurgical results.
- High flash point enhances operational safety by reducing fire hazards.
- Low volatility minimizes oil consumption and evaporation losses.
- Produces clean, bright workpieces with reduced post-quenching cleaning requirements.
- Helps extend bath life, reducing maintenance frequency and operating costs.
- Suitable for a wide range of steel grades and heat treatment applications.
- Provides consistent quenching performance throughout extended operating periods.

Technical Specifications

Test	Method	Typical Properties
Kinematic Viscosity (40°C), [cSt]	ASTM D445	90,0 – 110,0
Density @ 15^0C g/ml	ASTM D4052	0,880 – 0,895
Viscosity Index	ASTM D2270	Min. 90
Flash Point, °C	ASTM D92	Min. 230
Pour Point, °C	ASTM D97	Max. -15

Health and Safety

This product does not pose a significant health or safety risk when used appropriately. For detailed safety information, please refer to the Safety Data Sheet (SDS).

Storage & Handling

Store in a cool, dry, and well-ventilated area, away from direct sunlight and moisture. Keep containers tightly closed to prevent contamination. Dispose of contents and containers in accordance with local regulations.

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