

Iloquench 32

Cold quenching oil

Description

Castrol Iloquench™ 32 is high quality, low viscosity quenching oil. It contains an additive package which provides accelerated quenching characteristics compared to straight mineral quenching oils.

Application

Iloquench 32 is a general purpose accelerated quenching oil. It offers a medium quenching speed which makes it suitable for fully hardening small parts made of plain carbon steels, like fasteners and high carbon spring wire as well as for use on intricate parts where interfering distortion might be expected during quenching in extremely fast quenching oils.

Consequently, Iloquench 32 can also be used for distortion-prone work, such as large carburized transmission gears, plastic moulds and large bearing rings, balls and rollers made of alloy steels.

Iloquench 32 is suitable for use in continuous furnaces and open quench tanks. It may also be employed for quenching parts heated in cyanide salt baths.

Conditions of Use

Optimum working temperatures range for Iloquench 32: 20°C - 80°C.

Avoid water entry into storage tanks or quench baths.

Advantages

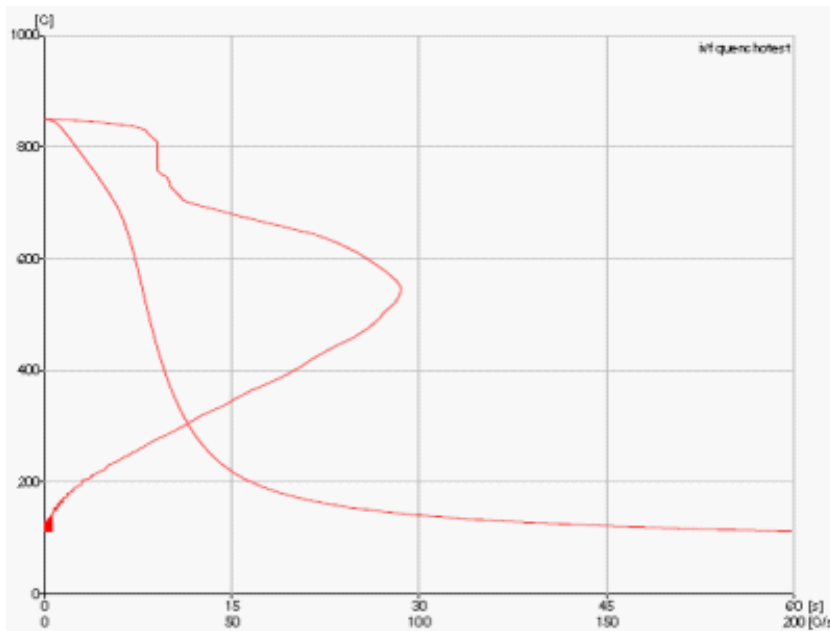
- Blended using high quality, solvent-refined base stocks and additives - aids consistent accelerated quenching performance and metallurgical standards of output
- Low viscosity - ensures minimum drag out losses and enables effective heat transfer
- High flash point - reduces fire risk
- Low percentage of volatile fractions - reduces losses due to evaporation and improves working conditions due to low fuming
- Good resistant to oxidation and thermal degradation - reduces sludge and acid build-up and leads to a longer service life
- Absence of tars and asphaltic matter - leads to clean components free of stains, patches, spots and marbling aspects and facilitates easy removal of the oil film if required
- Compatible with most methods of component heating, including salt bath heating

Typical Characteristics

Description	Unit	Test Method	Value
Appearance	-	Visual	Clear, yellow-amber liquid
Density @ 15 °C	kg/m ³	ISO 3675 / ASTM D 1298	870
Kinematic Viscosity @ 40 °C	mm ² /s	ISO 3104 / ASTM D 445	22
Kinematic Viscosity @ 100 °C	mm ² /s	ISO 3104 / ASTM D 445	5
Flash Point, COC	-	ISO 2592 / ASTM D 92	> 180 °C

Additional Information

Quenching Characteristics @ 60 °C (IVF Quenchtest, ISO 9950):



Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer the product safety data sheet.

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