



Iloquench 100

Hot quenching oil

Description

Castrol Iloquench™ 100 is a medium viscosity oil that is particularly suitable for quenching intricate components to the required hardness. At the recommended oil bath temperature, its viscosity is low enough to prevent the retention of oil by capillary action and to reduce drag out losses. Iloquench 100 is an additive treated oil that combines high temperature thermal and oxidative stability with low volatility, thus ensuring that fuming and evaporation are kept to a minimum.

Application

Iloquench 100 is recommended for use in hot quenching applications where distortion and stress caused by cold quenching is a problem. The product would be used for example in the automotive industry where close dimensional control of the components is essential. Iloquench 100 can be used between 120°C and 180°C. Although the product has excellent resistance to oxidative degradation, it is recommended that at these temperatures, the oil bath is protected from the air by a reducing atmosphere or inert gas.

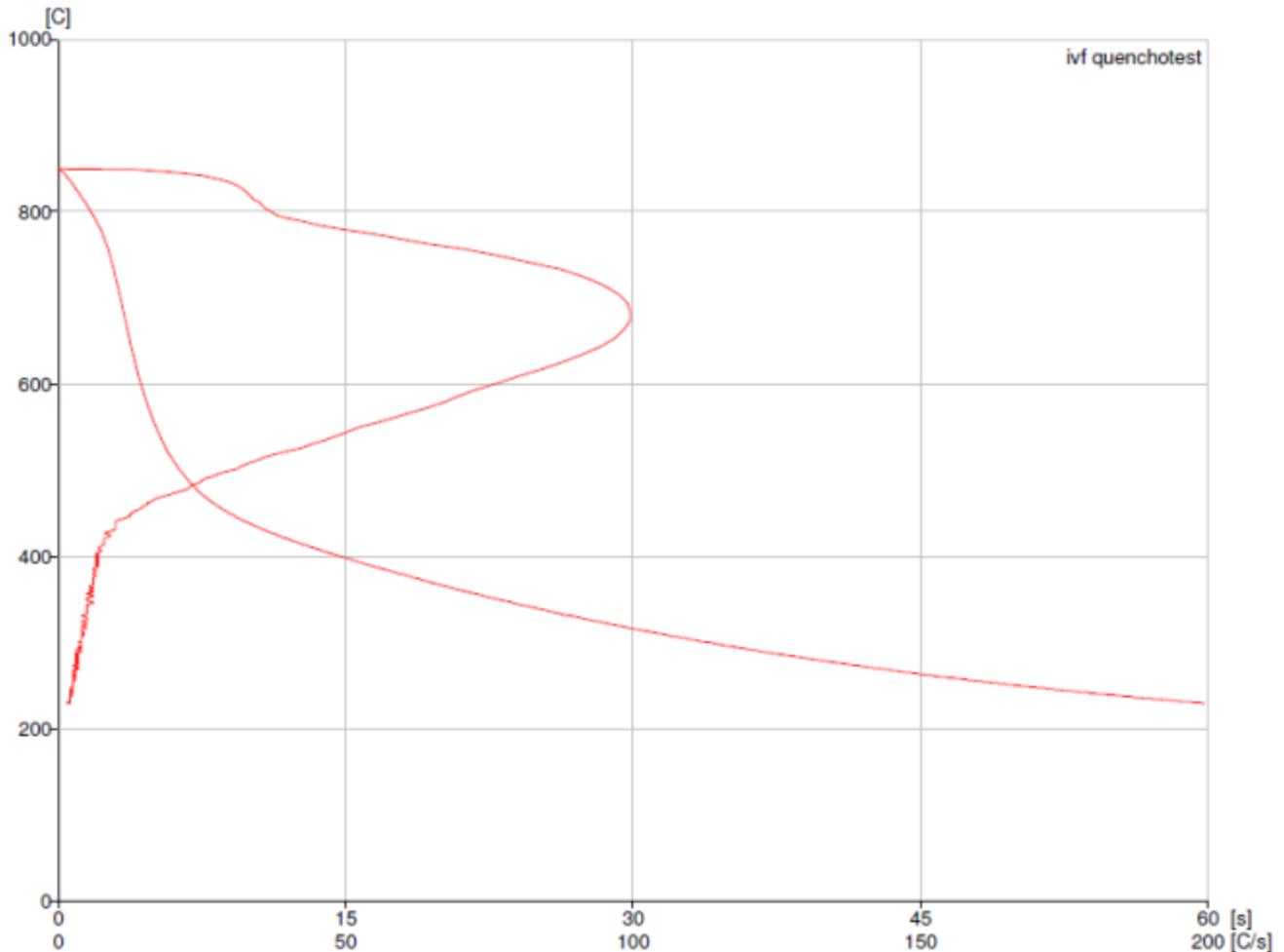
Advantages

- Highly resistant to oxidation and thermal degradation thereby leading to a longer life in service.
- High flash point and fire points for safe operation.
- Minimum deposit formation.
- Controlled quench acceleration.
- Improved hardness with minimum cracking and distortion.
- Promotes deep hardening of parts.
- Low viscosity at high bulk oil temperatures assures low drag out losses.
- Low volatility ensures fuming and evaporation are kept to a minimum.

Typical Characteristics

Name	Method	Units	Value
Density @ 15C, Relative	ASTM D 1298	kg/m ³	886
Appearance	Visual	-	Clear, brown liquid
Kinematic Viscosity @ 40 °C	ASTM D 445	mm ² /s	-
Kinematic Viscosity @ 100 °C	ASTM D 445	mm ² /s	12
Flash Point, PMCC	ASTM D 93	°C	250
Pour Point	ASTM D 97	°C	-12
Acid Number, Total (Potentiometric)	ASTM D 664	mg KOH/g	0.16
Cooling Curve @ 140 °C	ISO 9950 (ivf)	-	See graph

Typical Physical Characteristics



Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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