

Product Description

Thermrex 100 is a medium viscosity oil that is particularly suitable for quenching intricate components to the necessary hardness. At the recommended oil bath temperature, its viscosity is low enough to prevent the retention of oil by capillary action and also to reduce drag out losses.

This 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.

Benefits

Thermrex 100 offers the following benefits:

- Highly resistant to oxidative degradation, giving longer service life
- High flash point and fire points for safe operation
- Minimum deposit formation
- 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 kept to a minimum
- Controlled quench acceleration

Application

Thermrex 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.

Thermrex 100 can be used between 120 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.

Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

Typical Characteristics

Thermrex 100

	Test Methods	Units	
Appearance			clear
Colour			brown
Density at 15°C	ISO 3675/ASTM D1298	kg/m ³	891
Kinematic Viscosity at 40°C	ISO 3105/ASTM D445	mm ² /s	110
	at 100°C		11.8
Flash Point (COC)	ISO 2592/ASTM D92	°C	274
Flash Point (PMC)	ISO 2719/ASTM D93	°C	238
Pour Point	ISO 3016/ASTM D57	°C	-12
Total Acid Number	ASTM D664	mgKOH/g	0.17

Due to continual product research and development, the information contained herein is subject to change without notice.

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