

THERMIC 15

Heat Treatment

DESCRIPTION

THERMIC 15 is a semi-hot quenching oil, with a high flash point, used for the martensitic quenching of mechanical steel parts with complex shapes.

ADVANTAGES

- Reduces strain and crack risks
- Excellent thermic shock resistance
- Economical product, due to its fluidity at working temperature
- Optimised production due to the stability of its quenching power
- Reduces fire risks due to its high flash point

PROPERTIES

- Slightly accelerated semi-hot quenching oil.
- Excellent wetting properties
- Excellent stability for the range of working temperatures:
 - 50 - 120°C
 - 30 - 80°C used under air
 - 50 - 120°C used under atmosphere
- Highly reinforced oxidation resistance
- Stable quenching power

TECHNICAL CHARACTERISTICS

Characteristics	Methods	Units	THERMIC 15
Colour			Amber
Viscosity at 40°C	ASTM D445	mm ² /s	45
Density at 20°C	ISO 12185	Kg/l	0.878
Flash point	ASTM D92	°C	235
Ignition point	ASTM D92	°C	265

APPLICATIONS

THERMIC 15 is recommended for quenching of hard alloyed steels when a cold quenching oil (very quick cool rate with crack risks), or a warm quenching oil (slow cool rate with risks of obtaining insufficient mechanical properties) are prohibited.

- 30 - 80°C
 - Hard steels: XC 55, XC 65, XC 75: links, axes, chain flanks
 - Medium-hard steels: XC 35, XC 38, XC 48: big chain flanks, screws, bolts...
 - Case-hardening steels: 20 NC 6, 35 NC 6: axes
- 80 - 120°C
 - THERMIC 15 is used for quenching of low and mild alloyed steels parts when their weight and dimensions can cause distortions.

THERMIC 15 is suitable for batch oven, continuous furnace, with or without atmosphere,

SERVICE AND EQUIPMENT

In addition to its product ranges, MotulTech can provide tools and services for the maintenance and in-use monitoring of your lubricants. Please contact your technical sales representative.

IMPORTANT NOTICE

All information and rules about health, safety and the environment are mentioned on the safety data sheet. It provides information about risks, safety procedures and first aid emergency rules. It clarifies all procedures to implement in the case of an accidental spillage, and for the disposal of the product and its effects on the environment.

Our product contains natural additives which are likely to modify the colour of the concentrates without altering its performance. The specifications of our products are definite only at the time of order, and are subject to our general sale and guarantee conditions. To give our customers the latest technical developments, the general characteristics of our products may vary. The safety data sheet of this product is available at www.motul.com