

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.

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.

ADVANTAGES

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

TECHNICAL INFORMATION

NAME	UNITS	METHOD	THERMIC 15
Color	-	ASTM D1500	Amber
Density at 20°C (68°F)	-	ISO 12185	0.878
Viscosity at 40°C (104°F)	mm ² /s	ASTM D445	40.0
Self-Ignition Point	°C	ASTM D92	258.0
Flash point	°C	ASTM D92	>230

These characteristics are given only for information and can be updated over time.

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

SERVICES AND EQUIPMENT

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