

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.

RECOMMENDED 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

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

CHARACTERISTICS	METHOD	UNIT	THERMIC 15
Color			Amber
Viscosity at 40°C	ASTM D445	mm ² /s	40
Density at 20°C	ISO 12.185		0.878
Flash point	ASTM D92	°C	>230
Ignition point	ASTM D92	°C	258

The specifications are given for information purposes only and may need to change.

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