



# 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

TECHNICAL CHARACTERISTICS	UNITS	METHOD	THERMIC 15
Color	-	ASTM D1500	3
Self-Ignition Point	°C	ASTM D92	258.0

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.

### Important Notice

Information disclosed in this technical data sheet is based on MOTUL's experience and know-how in the development and manufacture of lubricants and other chemical products according to the current state of knowledge.

Any chemical product must be used in the intended application and in accordance with the recommendations provided in its safety data sheet freely consultable via the site <https://www.quickfds.com/fr/>. The performance of our products may be influenced by a series of factors, including conditions of use, application methods, operational environment, pretreatment of components, possible external contamination, etc ... For these reasons, universal recommendation of our products is impossible. The information in the technical data sheet represents general, non-binding guidelines and is given for guidance only. No express or implied warranty is given regarding the properties of the product or its suitability for a given application.

Therefore, we recommend consulting an application engineer to discuss application conditions and product performance criteria before use. It is the user's responsibility to test the functional suitability of the product and to use it under appropriate safety conditions. Our products are subject to continuous improvement with the aim of improving performance or bringing them into compliance with any new and possible regulations concerning them. We reserve the right to change our product lines, our products and their manufacturing processes and any provisions of our publications at any time without notice. This technical sheet cancels and replaces all previous editions.

We expressly draw the attention of any user to the fact that our product has not been designed and tested for use in the field of aeronautics as an "onboard" product or in the field of nuclear power production. Any use that may be made of the product in one of the aforementioned sectors will be under the exclusive responsibility of the user. Any reproduction, whatever its form, requires the prior written consent of MOTUL. All rights reserved.