

# THERMIC SH 615

Heat Treatment

## DESCRIPTION

**THERMIC SH 615** is a soluble quenching polymer, which is nitrite, DEA, formaldehyde free. It has adjustable cooling speeds, managed with dilution ratios in order to cover a wide range of applications. It can also be used for tempering stop under specific conditions.

## APPLICATIONS

**THERMIC SH 615** has been specially designed for superficial quenching and heating by induction or conduction. The concentration to use depends on the nature of the steel you wish to quench, and the quenching depth.

Generally, concentration of **THERMIC SH615** is between 6 and 15% (shower, dipping...). The advised temperature of bath is between 30 and 50°C maximum. **THERMIC SH 615** can also be used for tempering stop from 4% concentration.

## ADVANTAGES

- THERMIC SH 615 is very cost effective thanks to low concentration and reduced product consumption (loss on chips and parts is limited).
- Few residues on parts.
- Easy filtration of baths (no clogging of filters).
- THERMIC SH 615 gives short term corrosion protection of quenched parts which avoid the use of an additional product for temporary protection.
- Very good dermatological behavior.

## TECHNICAL INFORMATION

NAME	UNITS	METHOD	THERMIC SH 615
Color	-	Visual	Colorless
Density at 20°C (68°F)	-	ISO 12185	1.05
Viscosity at 40°C (104°F)	mm <sup>2</sup> /s	ASTM D445	62.0
Refractometer Factor	-		2.5
pH	-	D15 1666	9.3 (Diluted at 10%, at 23°C)

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

## PROPERTIES

**THERMIC SH 615** has been developed to comply with the following criteria:

- New technology, formaldehyde free
- Wide range of use allowing treatment of different steels
- Very good resistance to microorganisms (bacteria and fungi)
- Good protection against corrosion (machine parts and quenched parts)
- Easy cleaning of quenched parts

## INSTRUCTIONS

Periodically check the concentration of the product in use, using a refractometer and comply with the attached curve. It is recommended to store the products in temperate conditions in sealed containers.

**THERMIC SH 615** concentration must be checked regularly with a refractometer and must be adjusted in accordance with the graph below, correction coefficient 2.5. In case of a long pause of the machine (end of the week for example), it is necessary to adjust the concentration at the upper limit value.

Installation must be cleaned regularly (especially the showers), do not leave saturated filtration media in contact with the fluid during production pauses. It is recommended to store products in a tempered warehouse and in closed drums. Expiration date: in storage conditions defined above in initial sealed packaging.

## 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.