

THERMIC TO 19 R

Heat Treatment

DESCRIPTION

Cold quenching oil with a high flash point; used for heat treatment of good hardenability steel and parts with simple geometric shape.

RECOMMENDED APPLICATIONS

THERMIC TO 19 R is specially adapted to parts with complex geometry, and are sensitive to distortion during quenching:

- Mid-hard carbon steels: XC 38, XC 42
- Hard carbon steels: XC 60, XC 70, XC 80
- Low alloyed steels: 18 CD 4, 25 CD 4, 35 CD 4
- Mid alloyed steels: 50 CD 4, 42 CD 4, 35 NCD

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ADVANTAGES

- Reduced consumption thanks to its fluidity
- Excellent thermic shock resistance thanks to its high quality additives
- Reduces the calefaction area
- Reduces fire risk thanks to its high flash point

THERMIC TO 19 R is recommended for all alloyed and semi-alloyed steels heated on salty bathes, hardening furnace, bell oven, continuous and conveyor furnaces.

TECHNICAL INFORMATIONS

CHARACTERISTICS	METHOD	UNIT	THERMIC TO 19 R
Color			Dark yellow
Density at 20°C	ISO 12.185		0.864
Viscosity at 40°C	ASTM D445	mm ² /s	29
Flash point	ASTM D92	°C	218
Ignition point	ASTM D92	°C	248
Storage			Frost free, in dry place

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

PROPERTIES

- Stable quenching power between 30 and 90°C
- Reinforced with antioxidant additives
- Excellent wetting properties