



# MAKER IBERTEM 15 R

## Description

A natural paraffin mineral oil with low viscosity, formulated with highly refined base oils, which provide the properties required to overcome the difficult conditions needed for the normal hardening of steel when high-speed hardening is not needed. This kind of oil is used with steel alloys and is formulated to last a long time.

## Properties

- Good resistance to oxidation and the formation of sludge and dirt.
- Very good thermal stability and low volatility, which reduces smoke and the risk of fire.
- Good foam resistance.
- Uniform and lasting hardening capacity.

## Technical specifications

	UNIT	METHOD	VALUE
Appearance	-	Visual	B & T
Colour	-	ASTM D1500	<1.5
Density at 15 °C	g/mL	ASTM D4052	0.870
Viscosity at 40 °C	cSt	ASTM D445	24
Viscosity at 100 °C	cSt	ASTM D445	4.5
Maximum cooling rate (MCR)	°C/s	ISO 9950	57.51
Temperature for MCR	°C	ISO 9950	558.71
Cooling speed at 300 °C	°C/s	ISO 9950	7.13
Time at 600 °C	s	ISO 9950	13.25
Time at 400 °C	s	ISO 9950	20.37
Time at 200 °C	s	ISO 9950	53.62
Cooling curve			Annex

The above mentioned characteristics are typical values and should not be considered product specifications.



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## Curva de enfriamiento

