

# QUENCH BRITE MARQUENCHING OIL<sup>®</sup>



## DESCRIPTION

QUENCH BRITE MARQUENCHING OIL is an accelerated medium speed quench oil.

## APPLICATION

- QUENCH BRITE MARQUENCHING OIL is used for tempering and martempering at temperatures up to 190°C especially for distortion-prone parts of case hardened or through hardened steels.
- This hot oil is used after carburizing or carbonitriding to minimize dimensional distortion and cracking.
- You can use QUENCH BRITE MARQUENCHING OIL with confidence. Your parts will achieve maximum oil quenched hardness with minimum distortion or cracking.
- QUENCH BRITE MARQUENCHING OIL will produce exceptionally clean, bright work when used within its recommended temperature range.
- OPTIMAL OPERATING TEMPERATURE RANGE: 150 - 190°C ( max. 120 – 190°C).
- OPERATING TIME: As required for appropriate metallurgical transformation

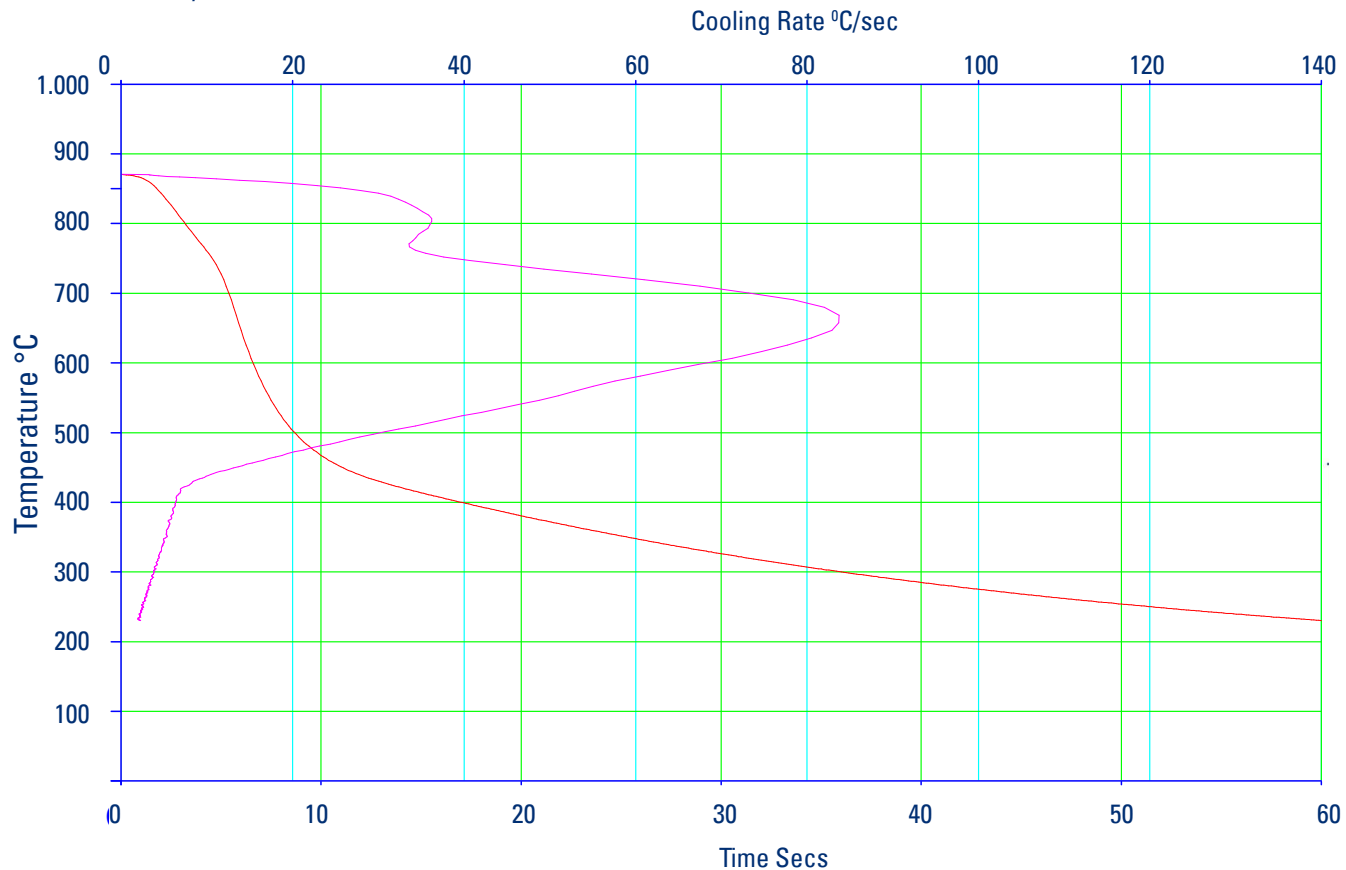
## TYPICAL CHARACTERISTICS:

Description	Method	Typical value	Unit
Density @20°C	DIN 51757/7 (2011)	880	kg/m <sup>3</sup>
Kinematic Viscosity @40°C	ASTM D445	140	mm <sup>2</sup> /s
Kinematic Viscosity @100°C	ASTM D445	14	mm <sup>2</sup> /s
Flash point COC	ASTM D92	260	°C
Maximum Cooling Rate	ASTM D6200	84	°C/sec
Cooling Curve (121 °C)	ASTM D6200	see graph	
Acid Value	ASTM D974	0,1	mg KOH/g

*Above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

# QUENCH BRITE MARQUENCHING OIL® | Quenching properties

ASTM D6200 / ISO 9950 at 121 °C



## CONTROL

- QUENCH BRITE MARQUENCHING OIL may need centrifuging or filtering depending on sediment dragged into it during production. Sediment level should be maintained at < 0.5%.
- Absorption of furnace atmosphere can cause the flash point to lower resulting in poor quenching characteristics or create a possible fire hazard. Should this occur, de-gassing the oil at 175°C with agitation, under protective atmosphere will remove the contamination.
- Electrical immersion heaters used to raise the temperature of the oil should not exceed 10.0 watts per square inch (15,5 kw/m<sup>2</sup>), in a well agitated (>0,5 m/s) environment.
- All efforts should be made to avoid water contamination of QUENCH BRITE MARQUENCHING OIL, because it will cause very erratic quench characteristics as well as posing a serious fire hazard. Water contamination can be removed from the oil by slowly elevating its temperature to 120°C for two hours with agitation.

## SAFETY

The Safety Data Sheet should be consulted for specific information and information on Health, Safety and Environment when handling this product.

## HANDLING AND STORAGE

Protect from freezing, direct sun and store dry between 5 - 35°C in a well-ventilated area.

Packaging types: 20, 200 and 1000 litre.

## NON-WARRANTY

The information contained in this bulletin is believed by DuBois Chemicals to be accurate, genuine and complete. Recommended parameters are based on typical processes and may be altered to accommodate specific requirements. However, the final use of this product is beyond our control; therefore, no warranty of results is expressed or should be implied by this technical data sheet.



**Cimcool Industrial Products**  
Schiedamsedijk 20  
3134 KK Vlaardingen  
The Netherlands  
Tel: +31 (0)10-4600660  
cimcool.eu@duboischemicals.com  
[www.cimcool.com](http://www.cimcool.com)

