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## **THERMIC 100**

Heat Treatment - Hot quenching

#### **DESCRIPTION**

**THERMIC 100** is a hot quenching oil with a high ignition point, used for quenching of low and medium alloyed steels with complex shapes.

#### **APPLICATIONS**

**THERMIC 100** hot quenching oil is specially adapted for the following heat treatments:

#### Cementation-quenching

· Low alloyed steels:

16 CD 4: tripods

20 CD 4: ball pivots, steering racks, steering pinions

· Medium alloyed steels:

20 NCD 2: crown and pinion drives

#### Carbonitriding

· Low alloyed steels :

20 CD 4 : tulip shafts, driven gearbox shafts, gearbox pinions

30 CD 4 : one-piece shafts, gearbox parts

#### Continuous hot quenching

· Hard carbon steels:

XC 48, XC 65, XC 80: strips, sheets

**THERMIC 100** is suitable for parts heated in batch type ovens with a protective atmosphere for the quenching tank.

#### **ADVANTAGES**

- Reduces strain and crack risks
- Excellent thermal stability, it oxidized a little under the effect of repeated quenching.
- High quenching speed.
- Uniform results due to a viscosity that does not vary.
- High flash point, which reduces the risk of fire, even when it is used at 180°C.
- Low consumption, due to its fluidity it reduces loss by drag-out.
- THERMIC 100 is approved by PEUGEOT CITROEN and can be recommended for all automotive subcontractors characteristics.





#### **TECHNICAL INFORMATION**

TECHNICAL CHARACTERISTICS	UNITS	METHOD	THERMIC 100
Color	-	Visual	Dark Yellow
Density	-	ASTM D4052	0.884
Viscosity at 40°C	°C	ASTM D445	123.2
Viscosity index	-	IP 220/85	101.4
Flash point	-	ASTM D92	284
Self-Ignition Point	°C	ASTM D92	310.0
Storage	-		in frost-free, dry place

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

#### **PROPERTIES**

- Fluid product at temperature of use (about 150°C)
- Stable product between 60°C and 180°C
- · Constant quenching capacity
- · High wetting properties
- · Strong antioxidant characteristics

#### 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.



### DATA



SHEET

#### Important Notice

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