

THERMIC 100

Heat Treatment

DESCRIPTION

Hot quenching oil with a high ignition point, used for quenching of low and medium alloyed steels with complex shapes.

RECOMMENDED 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

PROPERTIES

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

TECHNICAL INFORMATION

CHARACTERISTICS	METHOD	UNIT	THERMIC 100
Color			amber
Density at 20°C	ISO 12.185		0.884
Viscosity at 40°C	ASTM D445	mm ² /s	123
Flash point	ASTM D92	°C	284
Ignition point	ASTM D92	°C	310
Storage			Frost-free, in dry place

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