

THERMIC 100 FC

Heat Treatment

DESCRIPTION

THERMIC 100 FC is a very accelerated hot quenching oil made for quenching of low and medium alloyed steels of complex shape.

RECOMMENDED APPLICATIONS

THERMIC 100 FC 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 rotules
- Medium alloyed steels:
 - 20 NCD 2 : crown and pinions drives

Carbonitriding

- Low alloyed steels :
 - 20 CD 4: tulip shefts, gearbox shafts, gearbox pinions
 - 30 CD 4: one piece shafts, gearbox parts

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

ADVANTAGES

- Wide range of use temperature: 80-160°C
- Getting higher hardness
- Short calefaction area
- Reduces strain and crack risks
- Excellent thermal stability, THERMIC 100 FC oxidized a little under the effect of repeated quenching
- 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
- Good filterability

TECHNICAL INFORMATIONS

CHARACTERISTICS	METHOD	UNIT	THERMIC 100 FC
Aspect			Clear
Color			Brown
Density at 20°C	ISO 12.185		0.869
Viscosity at 40°C	ASTM D445	mm ² /s	111
Flash point	ASTM D92	°C	264
Ignition point	ASTM D92	°C	288
Storage			Frost-free, in dry place

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