



# MAKER TERMICO SYNTH

## Description

Synthetic fluid specially formulated for use as a heat transfer agent. Its additives make it extraordinarily thermal stability.

This fluid is specific for use in closed-circuit and forced-circulation heat transfer systems where working temperatures reach approximately 315 °C.

## Properties

- High thermal stability.
- Longer service life than mineral oils.
- Wide range of working temperatures.
- Easy temperature control.
- Good heat transfer coefficient.
- Low vapour pressure.
- Low tendency to form carbonaceous waste.
- Less load loss due to its low viscosity.

## Quality levels, approvals and recommendations

- ISO: 6743/12 - QC

## Technical specifications

|                               | UNIT              | METHOD     | VALUE       |
|-------------------------------|-------------------|------------|-------------|
| Colour                        | -                 | Visual     | Pale yellow |
| Density at 15 °C              | g/cm <sup>3</sup> | ASTM D4052 | 0.875       |
| Kinematic viscosity at 40 °C  | cSt               | ASTM D445  | 18          |
| Kinematic viscosity at 100 °C | cSt               | ASTM D445  | 3,5         |
| TAN                           | mg KOH/g          | ASTM D664  | 0,2         |
| Flash point, open cup         | °C                | ASTM D92   | 190         |
| Initial distillation point    | °C                | ASTM D1160 | 320         |
| Final distillation point      | °C                | ASTM D1160 | 480         |

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



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| T (°C) | Visc (cSt) | Density (g/cc) | Conductivity (W/m°C) | Cp (Kj/kg°C) |
|--------|------------|----------------|----------------------|--------------|
| 20     | 46,75      | 0,872          | 0,133                | 1,770        |
| 40     | 17,73      | 0,858          | 0,131                | 1,854        |
| 60     | 10,05      | 0,844          | 0,130                | 1,937        |
| 80     | 6,72       | 0,830          | 0,128                | 2,021        |
| 100    | 4,92       | 0,816          | 0,127                | 2,105        |
| 120    | 3,81       | 0,802          | 0,126                | 2,188        |
| 140    | 3,07       | 0,788          | 0,124                | 2,272        |
| 160    | 2,55       | 0,774          | 0,123                | 2,355        |
| 180    | 2,16       | 0,760          | 0,121                | 2,439        |
| 200    | 1,87       | 0,746          | 0,120                | 2,523        |
| 210    | 1,74       | 0,739          | 0,119                | 2,564        |
| 220    | 1,63       | 0,732          | 0,119                | 2,606        |
| 230    | 1,53       | 0,725          | 0,118                | 2,648        |
| 240    | 1,45       | 0,718          | 0,117                | 2,690        |
| 250    | 1,37       | 0,711          | 0,117                | 2,732        |
| 260    | 1,29       | 0,704          | 0,116                | 2,773        |
| 270    | 1,23       | 0,697          | 0,115                | 2,815        |
| 280    | 1,16       | 0,690          | 0,114                | 2,857        |
| 290    | 1,11       | 0,683          | 0,114                | 2,899        |
| 300    | 1,06       | 0,676          | 0,113                | 2,941        |

