



# CRANE Temper<sup>®</sup>

## - a good story

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### CRANE Temper, at the extreme

#### Reliable refrigeration

Environmental testing is an essential process that businesses, manufacturers, and engineers use to ensure the reliability and functionality of their products. This is where a climate chamber comes into play, as it provides a controlled environment to simulate different environmental conditions.

An environmental test chamber, is an enclosed space that can replicate a wide range of environmental and climatic conditions. The chamber can artificially recreate extreme conditions that machinery, materials, devices, or components might be exposed to in the real world. By this developers can accelerate product development and ensure functionality to reach the market quickly.

CRANE Temper products are ideal at creating extreme temperature conditions (waterlike properties down to -60°C). With an efficient heat transfer fluid, you not only save energy you will also create stable conditions for a long time, which is critical for this application.



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#### Aerothermal testing

Country: Italy  
Installed: 2016  
Version: CRANE Temper-55  
Quantity: 20 000L

- Wind tunnel where they converted from Triklörethylene to CRANE Temper.
- Windspeed of 90 km/h between -30°C to +50°C for testing the complete car in its natural environment.
- 20.000L of CRANE Temper -55

#### Engine test center for Powertrains

Country: Italy  
Installed: 2014  
Version: CRANE Temper-55  
Quantity: 24 000L

- A cooling distribution system studied to control climate inside test rooms for automotive engines
- Includes 2 systems for engine test cells and motor vehicles operating from -40°C to +50°C.

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#### Aerothermal testing

Country: Belgium  
Installed: 2015 / 2018  
Version: CRANE Temper-55  
Quantity: 24 000L / 63 000L

- Heat Pump low temperature testing facility
- Extended the system from 24.000L to 63 000L of CRANE Temper-55 in 2018

#### CRANE Temper, the ideal heat transfer fluid

The secret behind CRANE Temper's excellent fluid and environmental properties lies in the optimal mix of organic salts giving it its very low viscosity. This in turn reduces the overall energy consumption and makes it ideal for industrial refrigeration and food industry. The fluid contains an advanced organic adsorption inhibitor package to ensure an optimal corrosion protection.

CRANE Temper is colorless to yellowish and it is free from nitrites, borates, phosphates, molybdates and silicates. To ensure the high quality of the product, CRANE Temper is always supplied ready-to-use and is available in seven different versions with freezing points from -10 °C to -60 °C.

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-60°C

