

CRANE TEMPER FOR EXTREME CONDITIONS

Effective Heat Transfer In Environmental Testing

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.

CONTROLLED TESTING OF ENVIRONMENTAL CONDITIONS

An environmental test chamber, is an enclosed space that can replicate a wide range of environmental and climatic conditions. The chamber simulates extreme conditions that machinery, materials, devices and components may be exposed to in real-world environments. This enables developers to accelerate product development and ensure reliable performance before bringing products to market.

CRANE TEMPER, DESIGNED FOR EXTREME TEMPERATURES

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 and controlled conditions for a long time, which is critical for this applications.

ENGINE TEST CENTER FOR POWERTRAINS

Country: Italy

Year of installation: 2014

Product: CRANE Temper-55

Quantity: 24.000L

- 🔥 A cooling distribution system studied to control climate inside test rooms for automotive engines
- 🔥 Includes two systems for engine test cells and motor vehicles operating from -40°C to $+50^{\circ}\text{C}$

AEROTHERMAL TESTING

Country: Italy

Year of installation: 2016

Product: CRANE Temper-55

Quantity: 20.000L

- 🔥 Conversion from trichloroethylene to CRANE Temper in a wind tunnel application
- 🔥 Testing complete vehicles at wind speeds up to 90 km/h and temperatures from -30°C to $+50^{\circ}\text{C}$

AEROTHERMAL TESTING

Country: Belgium

Year of installation: 2015/2018/2024

Product: CRANE Temper-55

Quantity: 24.000L/63.000L

- 🔥 Heat Pump low temperature testing facility
- 🔥 Extension of the system from 24.000L to 63.000L of CRANE Temper-55 in 2018 and a new plant of 130.000L in 2024

CRANE TEMPER - THE IDEAL CHOICE OF A HTF








CRANE Temper is an environmentally friendly heat transfer fluid designed for demanding refrigeration applications.

The ready-mixed, non-toxic organic salt solution is formulated with an effective corrosion inhibitor package and is readily biodegradable*. With strong thermal performance, CRANE Temper is well suited for both industrial and food refrigeration.

CRANE Temper can be used in medium- and low-temperature refrigeration systems and operates efficiently in pressurized systems from -60°C up to 180°C . The product is available in seven versions, covering temperature ranges from -10°C to -60°C .

** Readily biodegradable – OECD 301A, 100% in 28 days*

ADVANTAGES WITH CRANE TEMPER

-  Low viscosity
-  High thermal conductivity
-  Reduced energy cost
-  Readily biodegradable
-  Adapted for the food industry
-  Advanced inhibitor technology
-  Personalized technical support

GENERAL PROPERTIES

Appearance: Colourless to pale yellowish

Boiling point: Approximately 109°C

pH: 8.5-9.5



**WORLD CLASS PRODUCTS
MADE IN SWEDEN**

ABOUT KRAHN SPECIALTY FLUIDS

KRAHN Specialty Fluids develops and delivers specialty chemical fluids for fire protection and refrigeration applications, supporting industrial and commercial operations where efficiency, reliability and long-term performance are essential. Our solutions are designed to optimize energy efficiency, reduce operational risk and deliver stable performance over time, while also lowering environmental impact.

KRAHN Specialty Fluids is headquartered in Gothenburg, Sweden, and is part of the KRAHN Chemie Group. We supports customers globally through in-house production and technical expertise.

Our refrigeration product CRANE Temper is readily biodegradable.