



A new category in industrial
heat transfer is born

Next generation organic heat transfer fluid



Nonfood Compounds
HT1

Safety guaranteed for the
Food Industry

Protecting facilities integrity
with certified efficiency



Who we are

CERPROKEM, S.L. is a company dedicated to manufacturing chemical specialties for the industry. We are a professionalized family business that partners with clients to find real solutions to complex problems. Two generations of expertise provide over 50 years of experience in the industrial chemical sector. We are constantly evolving, committed to R&D for new products that satisfy current and future market needs.

Responsibility & Ethics

Total transparency, honesty, involvement and professional rigor in every project.

Personalized Service

Expert technical support and immediate response agility.

Pursuit of Excellence

We work with commitment. We innovate to solve. Our goal is to provide maximum quality and the best service to our clients.

Chemical innovation with environmental consciousness

Our real commitment to sustainability:

Clean Energy:

We generate most of our consumption through our own photovoltaic panels.

Leading Efficiency:

We record an extraordinary ratio of just 0.01 kg of CO₂ per Euro invoiced.

Responsible Production:

34 kg of CO₂ per ton produced, a highly competitive figure in the sector.

Conscious Logistics:

Continuous optimization of the supply chain.

Specialization

Industrial water treatment.

R&D Laboratory

Analysis and development of exclusive formulations and proprietary products.

DinaFluidX
smart cooling

Origin and Innovation

DinaFluidX is a next-generation heat transfer fluid, fully developed through a proprietary three-year research, development, and experimental validation program.

It has been specifically engineered for use in closed-circuit refrigeration systems within the food industry, where reliability, thermal stability, and safety are critical factors.

Its formulation meets rigorous technical criteria and has been optimized based on testing under real-world operating conditions.



Key Features

Maximum Energy Efficiency

Thanks to its optimized thermodynamic properties, it enhances heat exchange and reduces system operating demands.

Real Economic Impact

Effective savings across all processes: energy, maintenance, and facility design.

Advanced Anti-corrosion Protection

Contributes to the preservation of system materials and long-term operational stability, even at high thermal ranges.

Food Industry Approved

Non-toxic heat transfer fluid. Fully suitable for use in the food industry, guaranteeing reliability in sensitive processes. NSF HT1 Certified. Meets regulatory requirements, including FDA 21 CFR.

Organic and Biodegradable Composition

Formulation designed to minimize environmental impact, both during use and final disposal.

Proprietary Technology

Patented formulation with complete control over product development and evolution.

Developed in a Real Industrial Setting

Formulated and validated in Barcelona, within a highly demanding food industry ecosystem.

Adapted to the European

Regulatory Framework

Developed as a solution to the legal restrictions due to F-Gas Regulation on fluorinated gases (EU Regulation 2024/573), in force since March 2024.



Nonfood Compounds
HT1

DinaFluidX offers a reliable technical solution for refrigeration systems requiring stability, efficiency, and regulatory compliance.

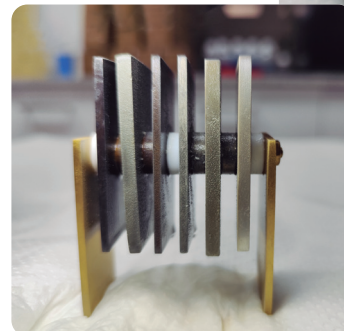


Anti-corrosion Validation

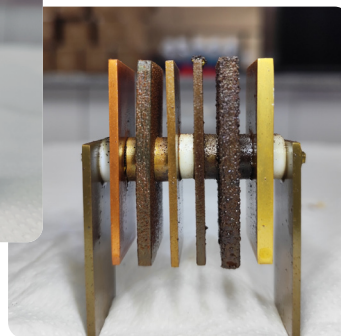
DinaFluidX provides high-level corrosion protection, helping to improve standard benchmarks in closed-circuit refrigeration systems.

At **Cerprokem** we possess the technical resources and specialized knowledge to conduct in-house laboratory testing, allowing us to evaluate product performance under controlled and reproducible conditions.

DinaFluidX has undergone a rigorous validation program based on internationally recognized methodologies. In this context, over 30 tests have been performed according to ASTM D-1384 standards, executed entirely in our laboratory.



Sample results after testing according to ASTM D-1384



Results audited by a prestigious international expert:

Dra. Linda Gil

Corrosion and Materials Specialist. PhD in Metallurgy and Materials Science with over 30 years of experience. Consultant/Advisor in Corrosion, Failure Analysis, and Materials Selection for the Oil, Mining and Steel Industries. Professor and Coordinator of the Corrosion Specialization at the Corrosion Studies Center of the National Experimental Polytechnic University "Antonio José de Sucre" (VE). With over 70 articles published in international technical journals. Member of the Mining and Materials Commission of the National Academy of Engineering and Habitat (VE).

Optimum Performance

-60°C to +60°C without loss of performance

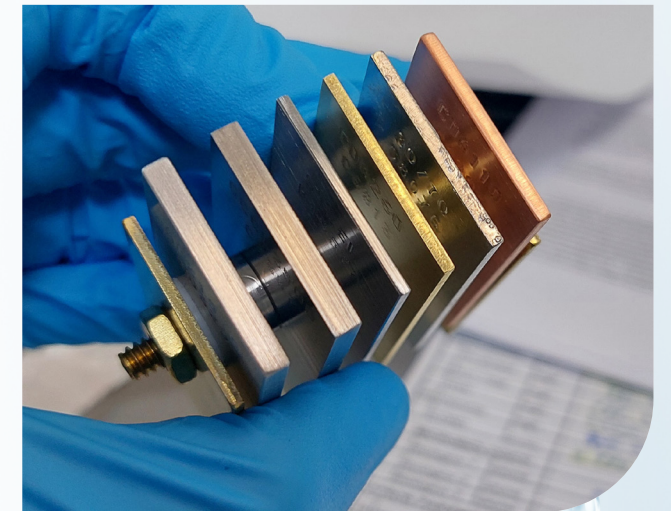
DinaFluidX maintains its properties even under the most extreme conditions. Our patented formula guarantees stability and protection across an exceptionally wide thermal range.

While other fluids:

- Lose efficiency at high temperatures
- Increase corrosion risk.

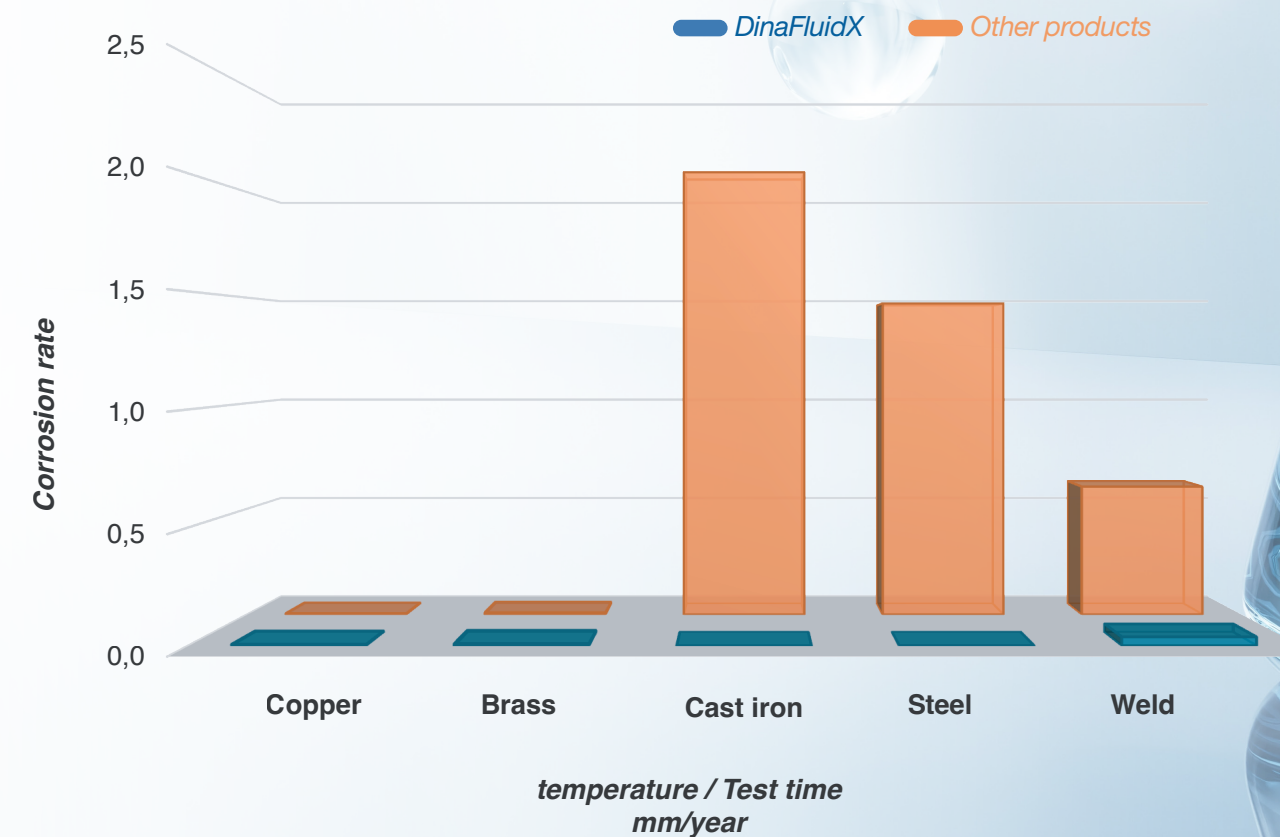
DinaFluidX offers:

- Total stability
- Constant protection
- Continuous performance



Prevents and Protects: Advanced Corrosion Control

Corrosion Comparison:
DinaFluidX vs. Market Solutions
(ASTM D-1384 Test).





Real Economic Impact

In industry, the facility is the most valuable asset. **DinaFluidX** not only enhances the technical performance of your installations but protects them throughout their life cycle, directly transforming your cost structure.

Energy Savings

Lower operating energy consumption due to low viscosity and high thermal conductivity. **DinaFluidX** optimizes heat exchange and reduces system stress. It improves chiller performance (with higher evaporation temperatures), enabling more efficient systems across the entire thermal range.

More Efficiency >
Longer Useful Life >
Lower Costs

Structural Maintenance Savings

Lower chemical aggressiveness eliminates premature facility deterioration, drastically reducing corrective maintenance and incidents. This results in savings where corrosion is no longer a hidden cost.

Design Savings

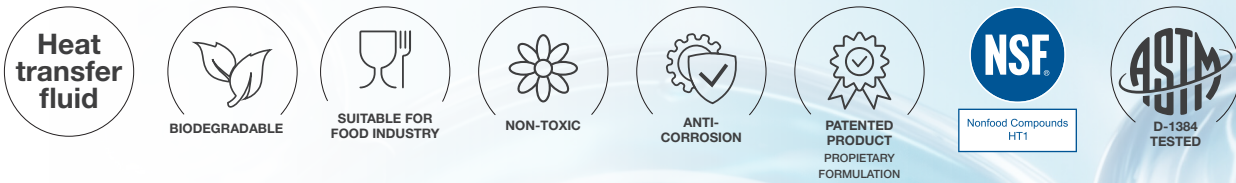
DinaFluidX allows for the design of more efficient systems from the start: simpler and more compact installations, lower power pumps, smaller diameter piping, and optimized exchangers. Efficiency that starts before construction.

Long-term Savings

Extended lifespan reduces future CAPEX and turns efficiency into profitability.



Heat transfer fluid based on non-toxic organic salts combined with biodegradable organic corrosion inhibitors.



Key Properties and Advantages

- Organic
- Advanced anti-corrosion protection (ASTM D-1384 tests)
- Stable volume with temperature changes
- Stable, non-flammable
- Working range: -60 °C to +60 °C without loss of properties
- Adapted to current and future regulations

Vs. Glycol-based Solutions

- Higher thermal conductivity resulting in better heat transfer
- Lower viscosity, meaning lower energy consumption
- Superior energy performance
- Extended life cycle

Applications

- Food and pharmaceutical industry
- Supermarkets
- Ice rinks
- Logistics centers.
- Sports facilities
- CO₂ systems (hot fluid defrosting)
- Ideal for secondary/closed circuits

Physical Properties

Appearance	Liquid
Color	Colorless or slightly yellowish
pH (20°C):	8.5 – 9.5
Specific Gravity:	1.10 – 1.27 g/cc (at 20°C)
Freezing Point:	Range -10°C to -60°C
Boiling Point:	~109°C
Solubility:	Fully water-soluble





A new paradigm in industrial refrigeration:
**Next-generation organic and biodegradable
heat transfer fluid**

Fully developed by Cerprokem

**Patented formula guaranteeing high corrosion
protection and stable thermal performance across
its entire operating range (+60°C/-60°C)**

**NSF HT1 Registration:
safety for use in the food industry**

**Maximum efficiency, safety,
sustainability and savings**

www.dinafluidx.eu

+info



**PRODUCT
DATA SHEET**



**MATERIAL
SAFETY
DATA SHEET**



CERPROKEM, S.L.
Francesc Macià, Nave 78
08530 La Garriga, Barcelona, Spain
T +34 93 119 98 28 | info@cerprokem.com
cerprokem.com