



PROCESS GLYCOL INFORMATION & SUPPORT SERVICES

StaTherm™ / StaCool™ and Specialized Thermal Fluids

Better People. Better Service.





THERMAL FLUIDS & COOLANTS

Performance by Science

StaTherm™ Heat Transfer Fluids

StaTherm™ is a chemically engineered Industrial Heat Transfer Fluid using an exclusive inhibitor package blend for corrosion protection in an **Ethylene glycol base**.



Ethylene glycol is an excellent choice for heat transfer fluid; giving the consumer superior heat transfer capabilities and low viscosity during low temperature applications.

StaTherm™ is well suited for use in Lineheaters, Aux Heating and Cooling systems, Boiler Heat Medium, HVAC Systems, Etc.

Temperature Range:

-50°C to 175°C (-60°F to 350°F)

StaCool™ Heavy Duty Compressor Fluid

StaCool™ is a formulated coolant, specifically for use in **Gas Compression Engines**. The same exclusive inhibitor package is utilized with the addition of the *Nitrite-Based inhibitor*.



The addition of the **Nitrite inhibitor** offers protection against cavitation and pitting corrosion; as well as, reducing cavitation of the cylinder liner sleeves.

[StaCool™ Exceeds ASTM D 6210-06 and ASTM D 4985-05](#)

Standard Specification for Fully-Formulated Glycol Base Engine Coolant for Heavy-Duty Engines and other industrial Heat Transfer Applications.

Temperature Range:

-50°C to 175°C (-60°F to 350°F)

Color: Blue

StaFrost™ Heat Transfer Fluids – Propylene Glycol Based

StaFrost™ is CFR Chemicals' chemically engineered Industrial heat transfer fluid; specifically formulated for a variety of heating and cooling applications. An exclusive inhibitor package blend is utilized in a **Propylene glycol base**.



The lower toxicity levels of Propylene Glycol make it a suitable fluid where possible contact is likely with water sources, animal life or a higher impact on the environment.

StaFrost™ is suitable for use in Lineheaters, Aux Heating, ventilating, air conditioning, Refrigeration, Thermal storage, Water chiller systems, Ice rinks, Process heating and cooling, Waste heat recovery, Solar and radiant heating systems, Ground loop heating system, HVAC Systems, Etc.

Temperature Range:

-45°C to 160°C (-49°F to 325°F)

Color: Water-White (Clear)





CFR Chemicals has implemented over 20 years of experience and understanding into the development of our Heat Transfer Fluids and Industrial Coolants.

The influence of science and technology has been the driving force behind the development of functional chemicals, in order to serve a variety of Industries and applications.

CFR Chemicals' superior product lines have helped to influence the expansion of the Heat Transfer Fluid industry and market. Our sales and distribution network has been strategically extended across Western Canada; with an emphasis on safety and environmental sustainability.

NATURAL GAS PROCESSING SOLUTIONS

Gas Processing Fluid's require a continuous evaluation of their chemistry and operational conditions, as neglect can lead to an array of complex problems. Analyses can be used in both diagnostic and preventative scenarios. Through the collection of data, we can assess, model and predict various scenarios that pertain to process related chemistry and system performance. **Recommended inhibitors and additives** are formulated for use primarily with Ethylene & Triethylene glycol process systems. The chemistries employed will effectively protect your process & gas dehydration equipment. The high flash point of the inorganic inhibitors utilized, make them well-suited for use in systems where a higher temperature tolerance is required; helping to reduce the frequency and the hassle of re-inhibiting.



Analytical Testing & Reporting

The CFR Glycol Maintenance Program includes complimentary analytical testing to help maintain fluid and sustain peak operating conditions within your process systems. CFR Chemicals understands the high costs related to an interruption in service, so data and technical knowledge are provided to help systems run smoothly.

Each sample has a complete analysis performed with specific tests to evaluate the fluid's current condition.

Our CFR Technical Team will generate a lab report based on the current state of the fluid and make recommendations for maintaining the efficiency of the fluid. The detailed report may include a prescribed remediation through additives.

Specific corrosion inhibitors and boosters can be supplemented to extend the overall life span of the working fluid or to return the inhibitor package to original specifications.

Technical Support Services

CFR Chemicals' Technical Support Team can assist with system optimization, identification and resolution of potential or occurring processing issues.

Through the use of on-site testing and troubleshooting, many issues will be resolved in a timely manner; retuning production and probability to normal.

CFR Technical Services also provides on-site training to Operations Staff. Training is designed to increase operator knowledge of Glycol Process systems, Chemical Application, Potential Hazards and Operating Issues. Thus, providing plant personnel the ability to understand, anticipate, prevent and remediate operational issues.

The key outcome of the training is to save the client money by maximizing overall efficiency, providing effective equipment maintenance, protecting assets and the safe operation of facility related process equipment.

CFR provides onsite assistance within 24hrs notice of plant issues including:

- ◆ Sampling of Process Glycols, pH verification, foaming tendencies, total suspended solids, color comparison.
- ◆ Process assessment – optimize temps, pressures, glycol flow rates and overall system efficiency.
- ◆ Digital Refractometer testing of glycol % by volume.
- ◆ Sample testing of glycols to determine freeze point.



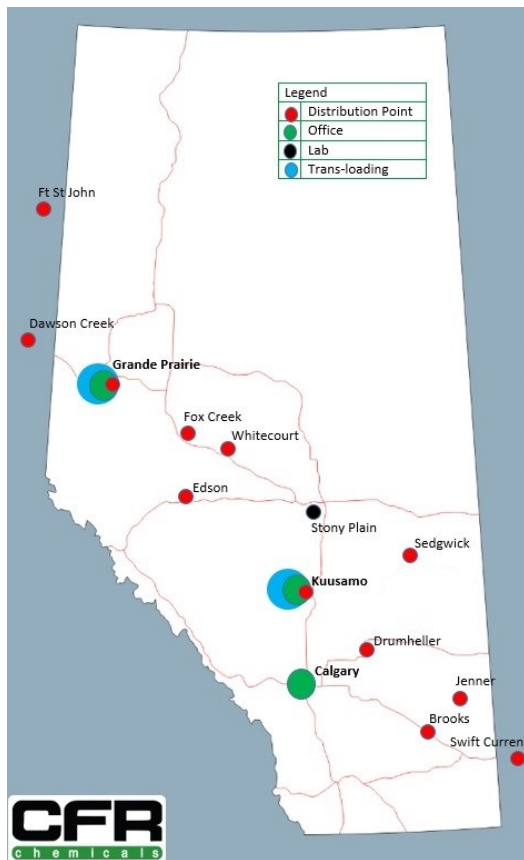
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Health & Safety

CFR is proud to have obtained an Alberta Certificate of Recognition (COR). This represents a significant achievement in our health and safety practices. We strive for continuous improvement, and to be a valued resource on best-practices within our industry. We welcome comments and suggestions from our customers – chat with us today.

We are also proud members of both ISNetworld, and Complyworks. Contact our Health and Safety manager for additional safety information, or our Corporate Development Manager for more information on our involvement with vendor management systems.