



Heat Transfer Fluids

Application Pharmaceutical Processing



About Caltherm

Caltherm® is a Caldic brand. Caldic is one of the world's leading full-service value-add solution providers for the premium life science and specialty chemicals markets. Our extensive range of high-quality thermal fluids have been developed using cutting-edge technology, and are based on the latest generation of mineral oils, synthetic oils and silicone-based oils.

Offering excellent compatibility and seamless blending properties, Caltherm products can be smoothly incorporated into virtually any processing environment as an alternative or tailor-made heat transfer fluid. While capable of handling temperatures as low as -100 °C up to a high of +400 °C, Caltherm's reliable solutions fulfill efficiency, operational and safety needs and simultaneously address regulatory and environmental requirements.

The Caltherm product range provides solutions for use across processing industries, including pharmaceutical, food, chemical, oil & gas, solar power, and more. Whatever the set-up of your processing installation, choosing one of Caltherm's solutions, whether an existing formulation or one customized to your situation, will be a valuable investment for the future.



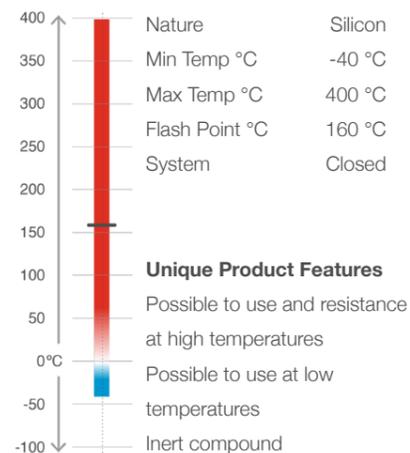
Why choose Caltherm?

- Extensive range of high-quality thermal fluids
- Over 30 years expertise in HTF solutions
- Technical expertise on installation and reactivity issue between fluid and manufactured product
- Chemical fluid analysis with on-site testing leading to a diagnostic solution
- Thorough pre-cleaning of processing plant to ensure maximum effectiveness
- Future-proofing approach, including technical needs and regulatory support
- Solutions that are tailor-made for you and your challenge
- Alignment with all business units within your company
- Supports financial proposals and investments
- Service-oriented and personal approach
- Excellent aftercare services, today, tomorrow, and in the future

Caltherm pharmaceutical processing solutions

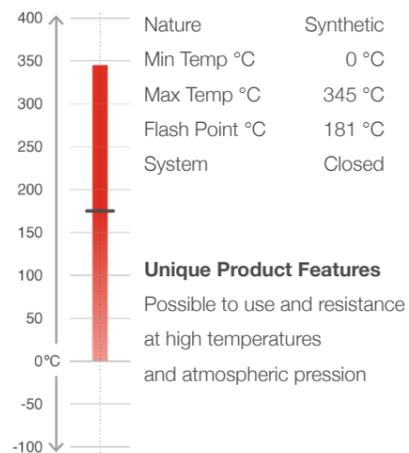
Caltherm 400

Fluid for high temperature and low viscosity



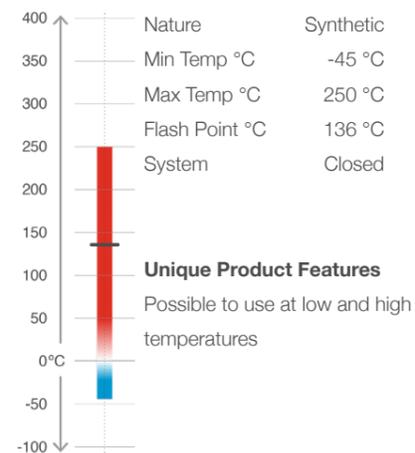
Caltherm C66

Synthetic fluid for very high temperature application



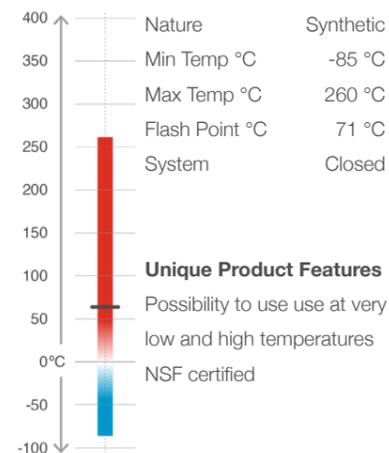
Caltherm CADX10

Synthetic fluid for extreme temperature applications



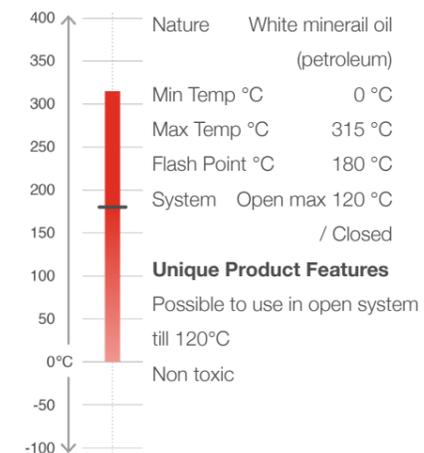
Caltherm CD12

Synthetic fluid for cold and warm application



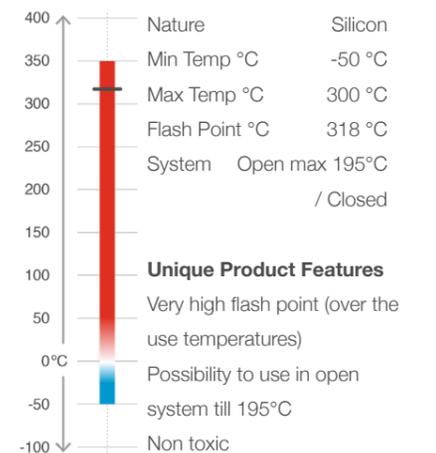
Caltherm CXP

Paraffin based fluid for warm system



Caltherm S 1050

Fluid for high temperature with very high flash point



Pharmaceutical processing application

The pharmaceutical industry excels at innovation, delivering high standard, precision solutions. As a result, the manufacturing processes are sophisticated and involve phases with high thermal stresses, requiring the use of reliable, high-quality heat transfer fluids.

Caltherm's high-tech thermal fluids are made from mineral, synthetic or silicone products and can replace glycol mixtures to guarantee the system can handle high pressures at high temperatures (for example, 85 bars at 300 °C for water).

The wide range of Caltherm thermal fluids meet pharmaceutical regulatory requirements by offering fluids suitable for either very low or very high temperatures (below -80 °C or above 350 °C) or fluids whose versatility guarantees permanent efficiency from -50 °C to 300 °C.

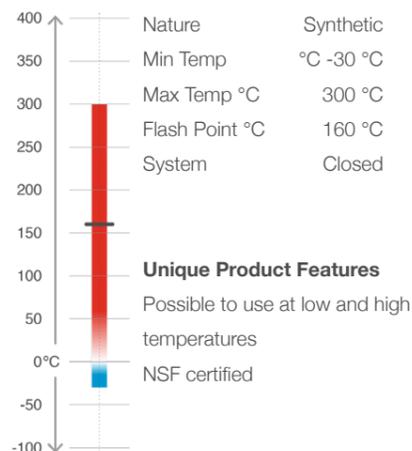


Pharma application success story

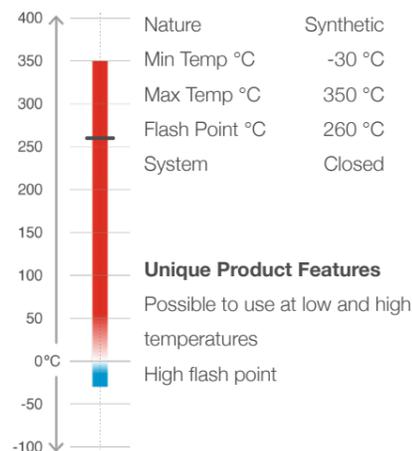
In 2015, the Caltherm team was approached by a pharmaceutical manufacturer experiencing technical issues in their production process originally operating between -30 °C and 160 °C. Following Caltherm's standard procedures, our specialist determined a baseline measurement via an objective analysis of the incumbent heat transfer fluid in the pharmaceutical plant. The outcome of the lab analysis showed that the ten-year-old heat transfer fluid had a decreased flashpoint of 120 °C, compared to the original 160 °C. This value was not compliant with the regulations of the pharmaceutical plant.

After a combination of lab analysis and site visits to assess the installation, the Caltherm experts recommended a tailor-made fluid with an initial viscosity close to that of the current fluid, but with a higher flashpoint of 218 °C. They also advised modifying the position and size of the expansion tank as it was too small and not at the highest point of the installation to optimize the systems performances. The thorough analysis and expert guidance ensured the Caltherm solution delivered long-term optimal performance of the customer's pharmaceutical plant for the next 20 years, simultaneously addressing both regulatory and environmental requirements.

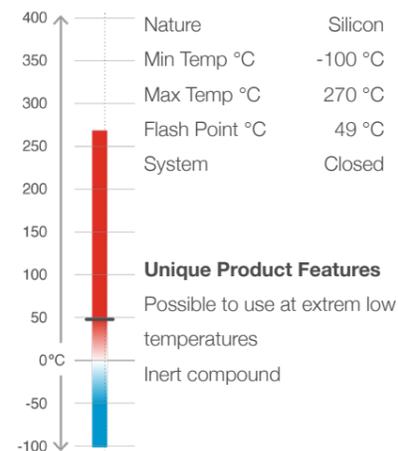
Caltherm SY2FC
Synthetic fluid for mixt temperatures application



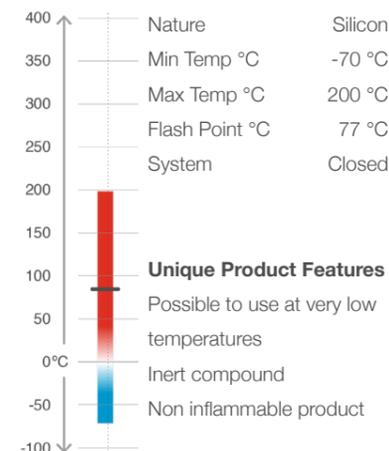
Caltherm SYN FC
Synthetic fluid for high temperature application at very high flash point



Caltherm UBT
Fluid for extrem low temperature application



Caltherm UBVI
Fluid extreme low viscosity at low temperature and inflammable



Get in contact

The Caltherm team of technical experts, equipped with longstanding experience across several industrial sectors, can develop tailor-made solutions to meet specific installation requirements. Initially, the specialists will determine a baseline measurement via an objective analysis of the HTF currently used in your system. Following this, the outcomes of the lab analysis, combined with a site visit to assess the installation, generate a diagnosis which is the starting point to discuss and recommend a solution that meets your requirements - technical, sustainable, efficient, safety or cost-effective – today, and in the future.

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