



12 reasons to choose Eastman Therminol® D-12 heat transfer fluid

THERMINOL.
Heat transfer fluids by Eastman

THERMINOL® D-12

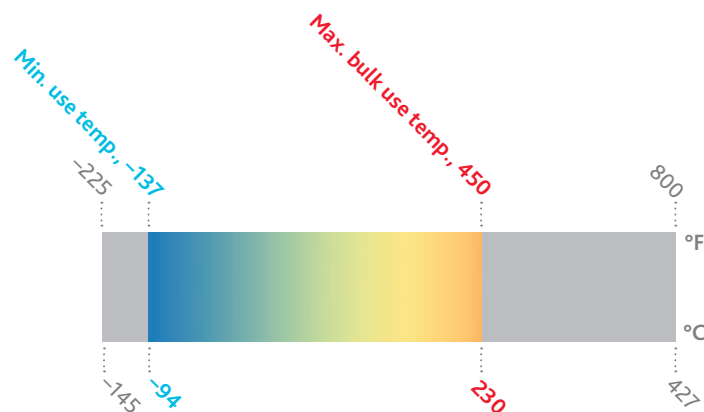
heat transfer fluid

Pump more trust into your system.

Whether on the factory floor or throughout a plant, a lot has to go right for industrial systems to work properly. So it's no wonder why so many maintenance managers and process engineers trust Eastman Therminol® D-12 heat transfer fluid to keep their systems in a steady state of readiness and avoid unnecessary downtime.

Suitable for heating and cooling processes, Therminol D-12 is a synthetic liquid-phase heat transfer fluid with excellent heat transfer properties over a wide temperature range.

But there are a lot more reasons to choose it for your system. **Here are the top 12:**



Therminol D-12 has a temperature range of -94° to 190°C (-137° to 374°F) without overpressure or up to 230°C (450°F) with appropriate level of system pressurization. It remains fluid and pumpable, even at temperatures as low as -94°C (-137°F). Start-up problems often associated with batch-processing systems are eliminated, and steam or electrical tracing is not required.

REASON

#1

PERFORMANCE

Therminol D-12 helps avoid unnecessary work stoppages. Within its wide use range of temperatures, customers can take advantage of a single-fluid heating and cooling service. Therminol D-12 can serve both needs, delivering excellent heat transfer rates and remaining fluid and easily pumped, even at low temperatures.

REASON

#2

VERSATILITY

Therminol D-12 has a wide temperature range. As industry needs for product purity increase, requirements for processing temperatures become more stringent. Therminol D-12 gives manufacturers the flexibility to meet reliable temperature needs. Without overpressure, this synthetic fluid has a temperature range of -94° to 190°C (-137° to 374°F). It can handle up to 230°C (450°F) with the appropriate level of system pressurization.

REASON

#3

HEALTH AND SAFETY

Therminol D-12 is based on halogen-free chemistry; therefore, it is especially suited for applications demanding low aromatic hydrocarbon content that results in a low-odor product. As a product that is NSF-registered under the category HT1, it surpasses requirements for use where there is the possibility of incidental food contact. Visit Therminol.com for complete information regarding safety.

REASON

#4

VALIDATED IN PHARMACEUTICAL MANUFACTURING

Therminol D-12 is a validated and proven solution in pharmaceutical manufacturing. Its reliable temperature control makes it an ideal fit for these highly regulated processes. For more than 35 years, Therminol D-12 has been instrumental in the manufacture of active pharmaceutical ingredients (APIs).

**REASON
#5**

**FOOD AND
BEVERAGE
PROCESSING
COMPATIBILITY**

Therminol D-12 can be used in food and beverage processing. Processing food and beverages is complicated and highly monitored. As a heat transfer solution, Therminol D-12 offers the reliable temperature control the industry demands. With no odor, Therminol D-12 is NSF registered under the category HT1 for incidental food contact.

**REASON
#7**

CONVENIENCE

Therminol D-12 offers combined cycle heating and cooling in one convenient product. Managing wide temperature ranges in batch-reaction processes can be a challenge. In the past, combined heating and cooling systems operating over a wide temperature range required twin-loop systems with two independent fluids. However, Therminol D-12 offers design and production engineers full heating and cooling capabilities with a single fluid.

**REASON
#8**

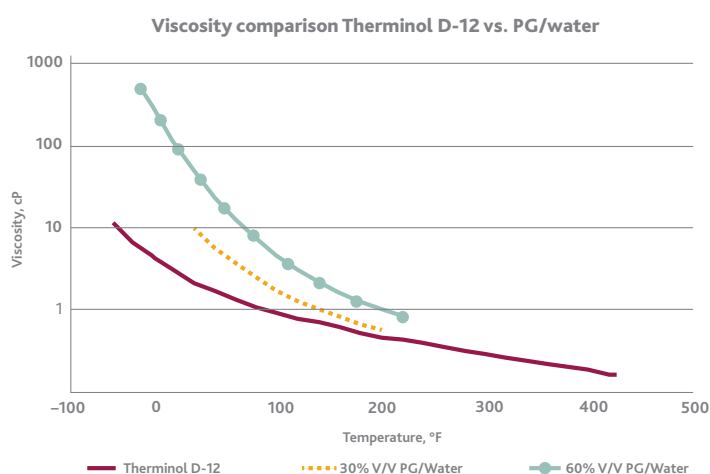
**ADDITIONAL
SAVINGS**

With Therminol D-12, corrosion inhibitors are unnecessary. Unlike glycol/water systems, it is not corrosive to carbon steel and common alloys. As a result, manufacturers can avoid the material and labor costs associated with corrosion-inhibiting additives and their in-service monitoring.

**REASON
#6**

PUMPABILITY

Unlike some glycol or brine solutions, Therminol D-12 remains fluid and pumpable even at low temperatures. It can be used in a variety of applications without changing or modifying pumps. As seen in the following figure, Therminol D-12 has low viscosity across a broad temperature range. This lower viscosity can translate to lower pumping and capital costs because steam or electrical tracing is not required, and start-up problems often associated with batch-processing systems are eliminated.



**REASON
#9**

LONG LIFE

Therminol D-12 performs consistently without breakdown or corrosion. When used within the recommended temperature ranges and in a properly maintained system application, it can be expected to perform properly and reliably for more than 20 years.

**REASON
#10**

**GLOBAL
AVAILABILITY**

You can rely on Eastman to deliver. All over the world, Therminol is a top-selling synthetic heat transfer fluid with manufacturing facilities and product supply on four continents. As one of the largest heat transfer fluid producers, Eastman has the infrastructure to deliver the quantity you need.



REASON #11

TLC TOTAL LIFECYCLE CARE® PROGRAM

Get the most out of your system with the most helpful analysis. Eastman's TLC Total Lifecycle Care program is designed to support Therminol customers throughout a system's life cycle. This comprehensive program includes sample analysis, system design support, operational training, safety awareness training, start-up assistance, flush, and refill fluids. Learn more at Therminol.com/resources/TLC.

REASON #12

CUSTOMER SUPPORT

Therminol and its distributors offer unrivaled customer service and support. With over 50 years of experience within the heat transfer fluid industry serving more than 10,000 active systems worldwide, we can provide a full range of technical data, including thermodynamic properties and seal compatibility information. And with a global network of distributors, account managers, and technical service personnel, our team is eager to assist our customers around the clock.

All systems go.

Therminol products are proven to perform with superior life spans and less downtime. Whatever your system, our outstanding heat transfer fluids and proactive customer service will help you stay in a steady state of efficiency.

Proven solutions.
Reliable temperature control.
Peace of mind.

For more information, visit our website, Therminol.com.

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