

**MARLOTHERM**  
from Eastman

# Selection guide

High-performance fluids for precise  
temperature control



Eastman offers a family of heat-stable fluids developed specifically for indirect transfer of process heat. Eastman's heat transfer fluids can meet the operating needs of virtually any single- or multiple-station heat-using system. In properly designed systems, our fluids will perform within their expected temperature ranges to provide excellent thermal stability.

Available in various formulations and operating ranges, our heat transfer fluids provide outstanding benefits, including economic efficiency, efficient operation, minimum maintenance and precise temperature control. Contact Eastman for detailed performance information on specific heat transfer fluids.

## Experience you can trust

Marlotherm<sup>®</sup> heat transfer fluids are well established and have a strong heritage, with more than 60 years of history in the industry. Building on Eastman's already extensive chemistry expertise, Marlotherm brings additional products and insight to our heat transfer fluid product offerings. Our years of experience and expanded product portfolio allow us to provide clients with expert guidance for their heat transfer fluid needs and continue delivering superior value.

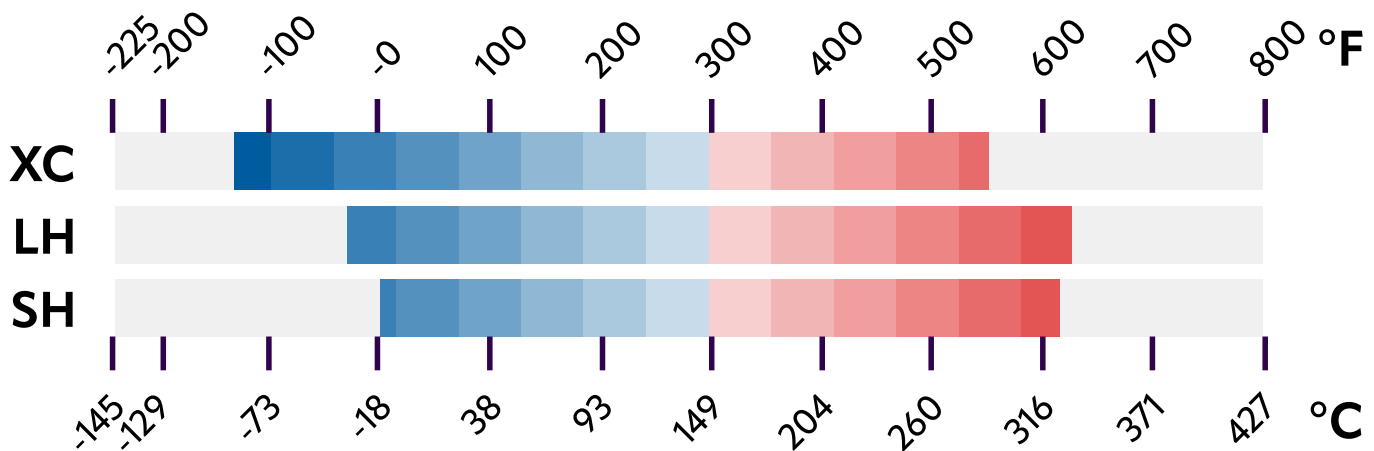
## Products for your application

Marlotherm heat transfer fluids are designed for indirect cooling and heating of production and conversion processes and energy recovery. They ensure dependable operation for a wide variety of system applications.

Marlotherm fluids are available in multiple products formulated specifically for pressurized and nonpressurized systems. They can help support safe operations, lower capital costs, and reduce maintenance costs.



## Product temperature scales at a glance



### Global footprint

Eastman's heat transfer fluids are the top-selling synthetic fluids in the world, with manufacturing facilities and product supply on four continents. As one of the largest heat transfer fluid producers, Eastman has the infrastructure to deliver sizable quantities of synthetic fluids.



### Expert technical support

Our Total Lifecycle Care™ program is designed to support customers throughout a system's life cycle. This comprehensive program includes sample analysis, system design support, operational training, safety awareness training, start-up assistance, and fluid flushing and refill.



### High-performance portfolio

Designed to provide precise temperature control in a variety of applications, Eastman heat transfer fluids provide proven performance, superior product life and worry-free fluid maintenance.



### Strong foundations

With more than 60 years of proven industry experience, our thermal fluids have a strong foundation of high performance.

# SI units

Liquid phase heat transfer

MARLOTHERM®

## LH

Wide-temperature-range fluid for heating and cooling

MARLOTHERM®

## SH

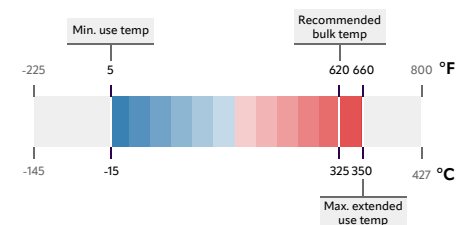
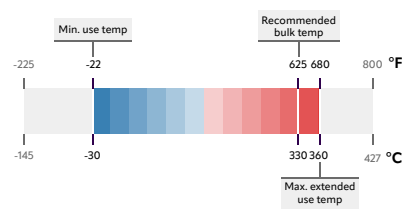
High-boiling-point, low-viscosity, low-pressure heat transfer fluid

Typical Properties <sup>a</sup>																		
Appearance	Clear liquid																	
Composition	Benzyltoluene																	
Recommended bulk temperature	330°C																	
Maximum film temperature	380°C																	
Normal boiling point	278°C																	
Pumpability: at 300 cSt (mm <sup>2</sup> /s) at 2,000 cSt (mm <sup>2</sup> /s)	-67°C <-70°C																	
Pour point	-79°C																	
Flash point, COC	132°C																	
Fire point, COC	157°C																	
Autoignition temperature <sup>b</sup>	510°C (DIN 51794)																	
Fully developed turbulent flow (Re = 10,000, 3.05 m/s, 2.54-cm tube)	1°C																	
Kinematic viscosity, cSt (mm <sup>2</sup> /s)	<table border="0"> <tr> <td>-20°C</td> <td>17.0</td> <td>0°C</td> <td>261</td> </tr> <tr> <td>100°C</td> <td>1.08</td> <td>100°C</td> <td>3.18</td> </tr> <tr> <td>200°C</td> <td>0.47</td> <td>200°C</td> <td>0.917</td> </tr> <tr> <td>300°C</td> <td>0.30</td> <td>320°C</td> <td>0.398</td> </tr> </table>		-20°C	17.0	0°C	261	100°C	1.08	100°C	3.18	200°C	0.47	200°C	0.917	300°C	0.30	320°C	0.398
-20°C	17.0	0°C	261															
100°C	1.08	100°C	3.18															
200°C	0.47	200°C	0.917															
300°C	0.30	320°C	0.398															
Density at 25°C (kg/m <sup>3</sup> )	992																	
Density, kg/m <sup>3</sup>	<table border="0"> <tr> <td>-20°C</td> <td>1025</td> <td>0°C</td> <td>1055</td> </tr> <tr> <td>100°C</td> <td>936</td> <td>100°C</td> <td>989</td> </tr> <tr> <td>200°C</td> <td>856</td> <td>200°C</td> <td>919</td> </tr> <tr> <td>300°C</td> <td>767</td> <td>320°C</td> <td>827</td> </tr> </table>		-20°C	1025	0°C	1055	100°C	936	100°C	989	200°C	856	200°C	919	300°C	767	320°C	827
-20°C	1025	0°C	1055															
100°C	936	100°C	989															
200°C	856	200°C	919															
300°C	767	320°C	827															
Heat capacity, kJ/(kg•K)	<table border="0"> <tr> <td>-20°C</td> <td>1.47</td> <td>0°C</td> <td>1.49</td> </tr> <tr> <td>100°C</td> <td>1.88</td> <td>100°C</td> <td>1.85</td> </tr> <tr> <td>200°C</td> <td>2.22</td> <td>200°C</td> <td>2.22</td> </tr> <tr> <td>300°C</td> <td>2.55</td> <td>320°C</td> <td>2.67</td> </tr> </table>		-20°C	1.47	0°C	1.49	100°C	1.88	100°C	1.85	200°C	2.22	200°C	2.22	300°C	2.55	320°C	2.67
-20°C	1.47	0°C	1.49															
100°C	1.88	100°C	1.85															
200°C	2.22	200°C	2.22															
300°C	2.55	320°C	2.67															
Thermal conductivity, W/(m•K)	<table border="0"> <tr> <td>-20°C</td> <td>0.136</td> <td>0°C</td> <td>0.1331</td> </tr> <tr> <td>100°C</td> <td>0.122</td> <td>100°C</td> <td>0.1201</td> </tr> <tr> <td>200°C</td> <td>0.111</td> <td>200°C</td> <td>0.1070</td> </tr> <tr> <td>300°C</td> <td>0.099</td> <td>320°C</td> <td>0.0910</td> </tr> </table>		-20°C	0.136	0°C	0.1331	100°C	0.122	100°C	0.1201	200°C	0.111	200°C	0.1070	300°C	0.099	320°C	0.0910
-20°C	0.136	0°C	0.1331															
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Vapor pressure, kPa	<table border="0"> <tr> <td>100°C</td> <td>0.22</td> <td>100°C</td> <td>—</td> </tr> <tr> <td>200°C</td> <td>13.1</td> <td>200°C</td> <td>0.723</td> </tr> <tr> <td>300°C</td> <td>162</td> <td>320°C</td> <td>21.1</td> </tr> </table>		100°C	0.22	100°C	—	200°C	13.1	200°C	0.723	300°C	162	320°C	21.1				
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Geographic availability <sup>c</sup>	Globally																	

<sup>a</sup> These data are based on samples tested in the laboratory and are not guaranteed for all samples. Contact us for complete sales specifications.

<sup>b</sup> Visit [marlotherm.com](http://marlotherm.com) for additional information.

<sup>c</sup> Check with your local sales office to determine exact availability by country.



# SI units

Liquid phase heat transfer

MARLOTHERM

## XC

High-performance, wide-temperature-range heat transfer fluid<sup>d</sup>

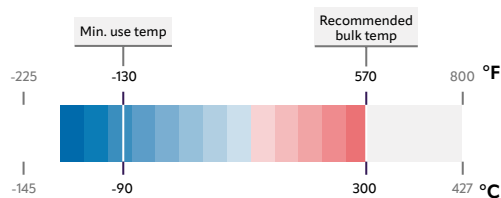
Typical Properties <sup>a</sup>									
Appearance	Clear liquid								
Composition	Cumene								
Recommended bulk temperature	300°C								
Maximum film temperature	320°C								
Normal boiling point	152°C								
Pumpability: at 300 cSt (mm <sup>2</sup> /s) at 2,000 cSt (mm <sup>2</sup> /s)	<-90°C —								
Pour point	<-90°C								
Flash point, CC	38.8°C								
Fire point, COC	50°C								
Autoignition temperature <sup>b</sup>	~420° C (DIN 51794)								
Fully developed turbulent flow (Re = 10,000, 3.05 m/s, 2.54-cm tube)	-84°C								
Kinematic viscosity, cSt (mm <sup>2</sup> /s)	<table border="0"> <tr><td>-50°C</td><td>3.11</td></tr> <tr><td>0°C</td><td>1.28</td></tr> <tr><td>150°C</td><td>0.34</td></tr> <tr><td>300°C</td><td>0.228</td></tr> </table>	-50°C	3.11	0°C	1.28	150°C	0.34	300°C	0.228
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0°C	1.28								
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Density at 25°C (kg/m <sup>3</sup> )	857								
Density, kg/m <sup>3</sup>	<table border="0"> <tr><td>-50°C</td><td>918</td></tr> <tr><td>0°C</td><td>878</td></tr> <tr><td>150°C</td><td>745</td></tr> <tr><td>300°C</td><td>554</td></tr> </table>	-50°C	918	0°C	878	150°C	745	300°C	554
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Heat capacity, kJ/(kg•K)	<table border="0"> <tr><td>-50°C</td><td>1.44</td></tr> <tr><td>0°C</td><td>1.65</td></tr> <tr><td>150°C</td><td>2.28</td></tr> <tr><td>300°C</td><td>3.17</td></tr> </table>	-50°C	1.44	0°C	1.65	150°C	2.28	300°C	3.17
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Thermal conductivity, W/(m•K)	<table border="0"> <tr><td>-50°C</td><td>0.144</td></tr> <tr><td>0°C</td><td>0.133</td></tr> <tr><td>150°C</td><td>0.098</td></tr> <tr><td>300°C</td><td>0.065</td></tr> </table>	-50°C	0.144	0°C	0.133	150°C	0.098	300°C	0.065
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Vapor pressure, kPa	<table border="0"> <tr><td>100°C</td><td>20.7</td></tr> <tr><td>200°C</td><td>301</td></tr> <tr><td>300°C</td><td>1528</td></tr> </table>	100°C	20.7	200°C	301	300°C	1528		
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<sup>c</sup> Check with your local sales office to determine exact availability by country.

<sup>d</sup> Marlotherm XC is a high-performance, wide-temperature-range heat transfer fluid for heating and cooling in the most varied fields of applications.



# English units

Liquid phase heat transfer

MARLOTHERM<sup>®</sup>

## LH

Wide-temperature-range fluid for heating and cooling

MARLOTHERM<sup>®</sup>

## SH

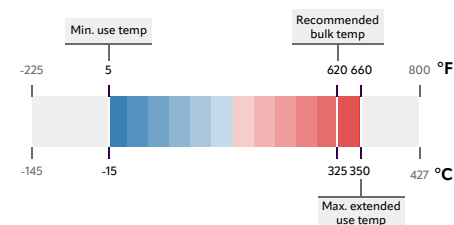
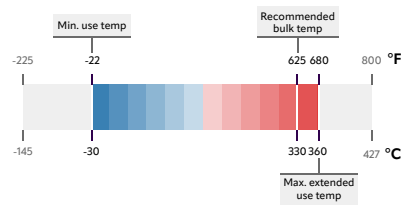
High-boiling-point, low-viscosity, low-pressure heat transfer fluid

Typical Properties <sup>a</sup>																										
<b>Appearance</b>	Clear liquid																									
<b>Composition</b>	Benzyltoluene																									
<b>Recommended bulk temperature</b>	625°F																									
<b>Maximum film temperature</b>	715°F																									
<b>Normal boiling point</b>	532°F																									
<b>Pumpability:</b> at 300 cSt (mm <sup>2</sup> /s) at 2,000 cSt (mm <sup>2</sup> /s)	-88°F <-94°F																									
<b>Pour point</b>	-110°F																									
<b>Flash point, CC</b>	270°F																									
<b>Fire point, COC</b>	315°F																									
<b>Autoignition temperature<sup>b</sup></b>	950°F (DIN 51794)																									
<b>Fully developed turbulent flow (Re = 10,000, 10 ft/s, 1-in. tube)</b>	34°F																									
<b>Kinematic viscosity, cSt (mm<sup>2</sup>/s)</b>	<table border="0"> <tr> <td><b>0°F</b></td> <td>15.5</td> <td><b>20°F</b></td> <td>588</td> </tr> <tr> <td><b>200°F</b></td> <td>1.17</td> <td><b>200°F</b></td> <td>3.60</td> </tr> <tr> <td><b>400°F</b></td> <td>0.46</td> <td><b>400°F</b></td> <td>0.882</td> </tr> <tr> <td><b>600°F</b></td> <td>0.29</td> <td><b>620°F</b></td> <td>0.384</td> </tr> </table>		<b>0°F</b>	15.5	<b>20°F</b>	588	<b>200°F</b>	1.17	<b>200°F</b>	3.60	<b>400°F</b>	0.46	<b>400°F</b>	0.882	<b>600°F</b>	0.29	<b>620°F</b>	0.384								
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<b>Density at 75°F (lb/gal)</b>	8.29																									
<b>Density, various units</b>	<table border="0"> <tr> <td><b>0°F</b></td> <td>8.54 lb/gal</td> <td>63.9 lb/ft<sup>3</sup></td> <td><b>20°F</b></td> <td>8.84 lb/gal</td> <td>66.1 lb/ft<sup>3</sup></td> </tr> <tr> <td><b>200°F</b></td> <td>7.85 lb/gal</td> <td>58.7 lb/ft<sup>3</sup></td> <td><b>200°F</b></td> <td>8.29 lb/gal</td> <td>62.0 lb/ft<sup>3</sup></td> </tr> <tr> <td><b>400°F</b></td> <td>7.11 lb/gal</td> <td>53.2 lb/ft<sup>3</sup></td> <td><b>400°F</b></td> <td>7.64 lb/gal</td> <td>57.2 lb/ft<sup>3</sup></td> </tr> <tr> <td><b>600°F</b></td> <td>6.27 lb/gal</td> <td>46.9 lb/ft<sup>3</sup></td> <td><b>620°F</b></td> <td>6.85 lb/gal</td> <td>51.3 lb/ft<sup>3</sup></td> </tr> </table>		<b>0°F</b>	8.54 lb/gal	63.9 lb/ft <sup>3</sup>	<b>20°F</b>	8.84 lb/gal	66.1 lb/ft <sup>3</sup>	<b>200°F</b>	7.85 lb/gal	58.7 lb/ft <sup>3</sup>	<b>200°F</b>	8.29 lb/gal	62.0 lb/ft <sup>3</sup>	<b>400°F</b>	7.11 lb/gal	53.2 lb/ft <sup>3</sup>	<b>400°F</b>	7.64 lb/gal	57.2 lb/ft <sup>3</sup>	<b>600°F</b>	6.27 lb/gal	46.9 lb/ft <sup>3</sup>	<b>620°F</b>	6.85 lb/gal	51.3 lb/ft <sup>3</sup>
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<b>Heat capacity, Btu/(lb•°F)</b>	<table border="0"> <tr> <td><b>0°F</b></td> <td>0.353</td> <td><b>20°F</b></td> <td>0.351</td> </tr> <tr> <td><b>200°F</b></td> <td>0.445</td> <td><b>200°F</b></td> <td>0.436</td> </tr> <tr> <td><b>400°F</b></td> <td>0.534</td> <td><b>400°F</b></td> <td>0.534</td> </tr> <tr> <td><b>600°F</b></td> <td>0.622</td> <td><b>620°F</b></td> <td>0.644</td> </tr> </table>		<b>0°F</b>	0.353	<b>20°F</b>	0.351	<b>200°F</b>	0.445	<b>200°F</b>	0.436	<b>400°F</b>	0.534	<b>400°F</b>	0.534	<b>600°F</b>	0.622	<b>620°F</b>	0.644								
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<b>Thermal conductivity, Btu/(h•ft•°F)</b>	<table border="0"> <tr> <td><b>0°F</b></td> <td>0.0785</td> <td><b>20°F</b></td> <td>0.0774</td> </tr> <tr> <td><b>200°F</b></td> <td>0.0712</td> <td><b>200°F</b></td> <td>0.0700</td> </tr> <tr> <td><b>400°F</b></td> <td>0.0638</td> <td><b>400°F</b></td> <td>0.0615</td> </tr> <tr> <td><b>600°F</b></td> <td>0.0564</td> <td><b>620°F</b></td> <td>0.0521</td> </tr> </table>		<b>0°F</b>	0.0785	<b>20°F</b>	0.0774	<b>200°F</b>	0.0712	<b>200°F</b>	0.0700	<b>400°F</b>	0.0638	<b>400°F</b>	0.0615	<b>600°F</b>	0.0564	<b>620°F</b>	0.0521								
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<b>Vapor pressure</b>	<table border="0"> <tr> <td><b>200°F</b></td> <td>1.14 mmHg</td> <td>0.022 psia</td> <td><b>200°F</b></td> <td>0.05 mmHg</td> <td>0.001 psia</td> </tr> <tr> <td><b>400°F</b></td> <td>113.3 mmHg</td> <td>2.19 psia</td> <td><b>400°F</b></td> <td>6.36 mmHg</td> <td>0.123 psia</td> </tr> <tr> <td><b>600°F</b></td> <td>1649.7 mmHg</td> <td>31.9 psia</td> <td><b>620°F</b></td> <td>184.1 mmHg</td> <td>3.56 psia</td> </tr> </table>		<b>200°F</b>	1.14 mmHg	0.022 psia	<b>200°F</b>	0.05 mmHg	0.001 psia	<b>400°F</b>	113.3 mmHg	2.19 psia	<b>400°F</b>	6.36 mmHg	0.123 psia	<b>600°F</b>	1649.7 mmHg	31.9 psia	<b>620°F</b>	184.1 mmHg	3.56 psia						
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# English units

Liquid phase heat transfer

MARLOTHERM

## XC

High-performance, wide-temperature-range heat transfer fluid<sup>d</sup>

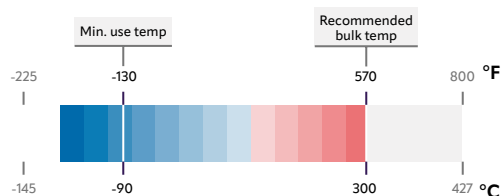
Typical Properties <sup>a</sup>			
Appearance	Clear liquid		
Composition	Cumene		
Recommended bulk temperature	570°F		
Maximum film temperature	608°F		
Normal boiling point	306°F		
Pumpability: at 300 cSt (mm <sup>2</sup> /s) at 2,000 cSt (mm <sup>2</sup> /s)	<-130°F —		
Pour point	<-130°F		
Flash point, CC	102°F		
Fire point, COC	122°F		
Autoignition temperature <sup>b</sup>	~788°F (DIN 51794)		
Fully developed turbulent flow (Re = 10,000, 10 ft/s, 1-in. tube)	-119°F		
Kinematic viscosity, cSt (mm <sup>2</sup> /s)	-100°F	5.54	
	200°F	0.486	
	400°F	0.273	
	570°F	0.228	
Density at 75°F (lb/gal)	7.16 lb/gal		
Density, various units	-100°F	7.82 lb/gal	58.5 lb/ft <sup>3</sup>
	200°F	6.66 lb/gal	49.8 lb/ft <sup>3</sup>
	400°F	5.74 lb/gal	42.9 lb/ft <sup>3</sup>
	570°F	4.62 lb/gal	34.6 lb/ft <sup>3</sup>
Heat capacity, Btu/(lb•°F)	-100°F	0.321	
	200°F	0.488	
	400°F	0.605	
	570°F	0.757	
Thermal conductivity, Btu/(h•ft•°F)	-100°F	0.0866	
	200°F	0.0643	
	400°F	0.0499	
	570°F	0.0377	
Vapor pressure	200°F	121.5 mmHg	2.35 psia
	400°F	2,472 mmHg	47.8 psia
	570°F	11,480 mmHg	222 psia
Geographic availability <sup>c</sup>			
Globally			

<sup>a</sup> These data are based on samples tested in the laboratory and are not guaranteed for all samples. Contact us for complete sales specifications.

<sup>b</sup> Visit [marlotherm.com](http://marlotherm.com) for additional information.

<sup>c</sup> Check with your local sales office to determine exact availability by country.

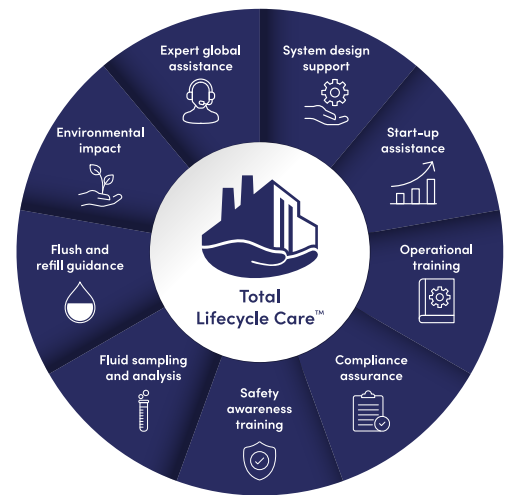
<sup>d</sup> Marlotherm XC is a high-performance, wide-temperature-range heat transfer fluid for heating and cooling in the most varied fields of applications.



# Total Lifecycle Care™ program

With more than 60 years of expertise, Eastman offers industry-leading support through Total Lifecycle Care. This comprehensive program provides help from start-up through a system's life cycle. This ensures optimal performance and reliability. We help our customers reduce downtime, maximize fluid efficiency and life, and enhance productivity.

Through Total Lifecycle Care, we are creating a future in which technology, expertise and care unite to ensure your systems run smoothly, maximizing productivity and driving success



## Comprehensive support services

- **In-service heat transfer fluid sample analysis**

Eastman provides comprehensive testing services to extend heat transfer fluid life and ensure system performance by detecting contamination, moisture and degradation through key tests like acid number, viscosity, insoluble solids and moisture content.



- **Fluid Genius™**

Fluid Genius is a web-based portal and sampling service that simplifies fluid sample management by providing expert analysis, fluid condition monitoring, lifespan prediction, early maintenance alerts, technical support and access to a comprehensive knowledge base. Learn more at [fluidgenius.net](http://fluidgenius.net).



## Operational efficiency

- **System design support**

Eastman collaborates with leading manufacturers to provide expert support in heat transfer system design, performance, fluid selection, and compliance, offering seminars, technical visits, and on-site audits to improve system reliability and efficiency.



- **Start-up assistance**

Eastman offers start-up assistance by reviewing procedures and recommending improvements to streamline systems and reduce common issues, with support available from local technical specialists or on-site visits.



- **Flush and refill guidance**

Therminol FF is specially formulated to clean liquid-phase heat transfer systems. After flushing with Therminol FF, refill the system with the appropriate Eastman heat transfer fluid to ensure optimal performance. Contact your local Eastman technical specialist to learn more and get expert guidance.



- **Compliance support**

Our team provides guidance to help you achieve and maintain regulatory compliance related to safety, health and environmental standards, ensuring your operations meet the necessary requirements.



- **Environmental impact**

Eastman supports your sustainability goals by advising on waste heat recovery and water-lean utility deployments using Therminol products to reduce CO<sub>2</sub> emissions and water consumption.



## Operational and safety awareness training

- **Operational training**

Eastman's customized training programs improve expertise in fluid selection and heat transfer system operation for technicians, supervisors, maintenance staff and engineers through core and specialized sessions to enhance design, improve safety and reduce costs.



- **Safety awareness training**

At Eastman, we approach safety with a zero-incident mindset. We offer our customers safety awareness training that focuses on the design start-up, operation and maintenance of heat transfer fluid systems to help ensure safe, efficient operations.



- **Expert global assistance**

Get direct access to experienced technical service specialists who can help answer questions regarding heat transfer fluid selection, system start-ups, system design and operational issues.



For more information, visit [marlotherm.com](http://marlotherm.com).

## **EASTMAN**

### **Eastman Corporate Headquarters**

P.O. Box 431  
Kingsport, TN 37662-5280 U.S.A.

U.S.A. and Canada, 800-EASTMAN (800-327-8626)  
Other locations, +(1) 423-229-2000

[eastman.com/locations](http://eastman.com/locations)

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