

Reaching new lows with Therminol® VLT heat transfer fluids

Fluid helps pharma systems meet lower-than-ever temperature demands.

Trends in the pharmaceutical industry continue to demand systems that can operate at extremely low temperatures. Cambridge Major Laboratories, a service-based chemistry outsourcing partner to the world's leading pharmaceutical and biotechnology companies, was one such company seeking a low-temperature solution.

"We were looking for a low-temperature fluid with the capability of going below -100°C (-150°F) to scale up our current processes. We knew Therminol VLT could provide that flexibility where other products couldn't," said Robert Petersen, pilot plant manager at Cambridge Major.

Cambridge Major has utilized Therminol D-12 heat transfer fluid for nearly 10 years. "We've been very pleased with the performance of Therminol D-12 and the TLC Total Lifecycle Care® program," said Petersen. "The Therminol technical support team goes above and beyond the call of duty." The Total Lifecycle Care program includes system design support, start-up assistance, training, sample analysis, flush and refill fluids, and a fluid trade-in program.



Cambridge Major's state-of-the-art facility in Germantown, Wisconsin

*"Team Therminol offered us one-stop shopping
for our heat transfer fluid needs."*

*Robert Petersen, pilot plant manager,
Cambridge Major Laboratories*

Precise temperature control when operating at extremely low temperatures is essential for ensuring the high degree of product quality necessary in the pharmaceutical industry. The Therminol team surveyed users of heat transfer fluids to understand considerations such as this when developing Therminol VLT. The end result is a product uniquely developed to meet the needs of the pharmaceutical industry. Therminol VLT is ideally suited for single-fluid heating and cooling systems between -115°C (-175°F) and 175°C (350°F).

Performance features include:

- Very low-temperature operation**
 Therminol VLT has unmatched heat transfer performance to -115°C and offers the benefits of liquid coolant temperature control.
- Cooling and/or heating operation**
 Therminol VLT allows a single fluid to be used in many general-purpose processes where both cooling and heating are required. The properties of Therminol VLT allow the same equipment to be used over its wide range of operation.
- Easy operation**
 Using Therminol VLT avoids the problem of using multiple fluids in the same piece of equipment and allows low-temperature operation with normal centrifugal pumps. Further, because of its low-temperature capabilities, Therminol VLT can give users the added benefits of increased product yield and reduced production time.

Therminol heat transfer fluids are utilized by many leading pharmaceutical companies and can meet the operating needs of virtually any single or multiple heat-using system.

For more information, or to find the sales or technical contact nearest you, visit the "Contact us" page on our website:
www.therminol.com.

North America
Solutia Inc.

A subsidiary of Eastman Chemical Company
575 Maryville Centre Drive
St. Louis, MO 63141 U.S.A.

Telephone:
Customer Service, 800-426-2463
Technical Service, 800-433-6997
Fax: Customer Service, (1) 314-674-7433

Latin America
Solutia Brasil Ltda.

A subsidiary of Eastman Chemical Company
Rua Alexandre Dumas, 1711—Birmann 12—
7º Andar 04717-004
São Paulo, SP, Brazil

Telephone:
Brazil, 0800 55 9989
Other Locations, +55 11 3579 1800
Fax: +55 11 3579 1833

Europe/Middle East/Africa
Solutia Europe SPRL/BVBA

A subsidiary of Eastman Chemical Company
Corporate Village—Aramis Building
Leonardo Da Vincilaan 1
1935 Zaventem, Belgium

Telephone: +32 2 746 5000
Fax: +32 2 746 5700

Asia Pacific
Eastman (Shanghai) Chemical

Commercial Company Ltd.
Building 3, Yaxin Science & Technology Park
Lane 399 Shengxia Road
Pudong New District
201210, Shanghai, P.R. China

Telephone: +86 21 6120 8700
Fax: +86 21 5027 9229

EASTMAN

The results of insight™

Eastman Chemical Company
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

www.eastman.com/locations

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