

A major player

With our production, supply chain and commercial presence in more than 150 countries, we deliver a full range of lubricants.

Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total cost of Ownership.

References & OEMs

Total Lubrificants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.

5 good reasons for choosing TOTAL

Innovation & Research

Total invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

Quality and environment

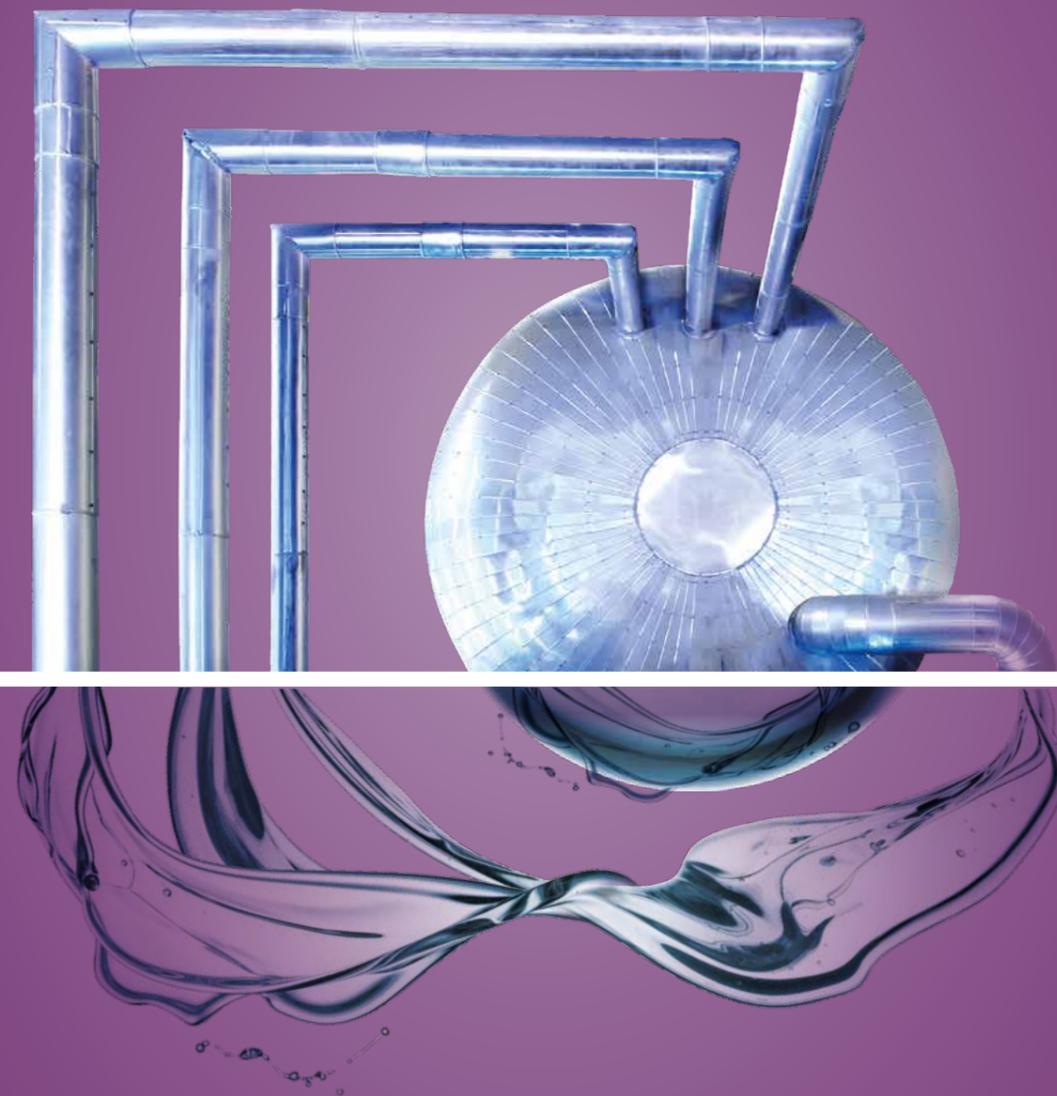
Total Lubrificants ISO 9001 certification is the guarantee of a long term commitment to quality. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.



Safety Data Sheets are available at quickfds.com
lubricants.total.com



JARYTHERM[®]
HEAT TRANSFER FLUIDS
BY ARKEMA



12/2018 - TOTAL Lubrificants SA 552 006 454 RCS Nanterre - Photos: 123RF - Design: GOLDEN Design





Jarytherm® High Performance Synthetic Heat Transfer Fluids

- **Temperature** range varies from **-40° C to 350° C**
- **High purity**, the chemical composition is stable and well defined
- **Excellent thermal** stability and heat transfer properties
- **Low cold viscosity**, easy start-up and **low energy consumption**
- **Low toxicity** of the oils and of potential degradation products
- **Compatibility** with all other thermal fluids

In-Service Heat Fluid Sample Analysis

In order to help our customers operate in a safe condition while getting the **maximum lifetime** of the product, we offer a series of analyses on in-service fluid sample to assess its service performance.

The analyses include **acid number, kinematic viscosity, insoluble solids moisture content, chemical composition, high and low boilers.**

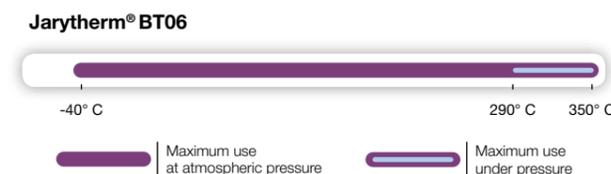
The Results of the sample analysis are:

- Presented in a detailed report with a **personalized diagnosis** and **technical recommendations** for the corrective actions based on the customer's operating conditions.
- **Kept on record** to facilitate the diagnosis of the future analyses.



JARYTHERM® BT06

A mixture of benzyltoluene and dibenzyltoluene isomers, it is primarily intended for to be used in industrial pressure circuits combining heating and cooling cycles. The useful application temperature range for JARYTHERM® BT06 is -40° C to 290° C in atmospheric pressure circuits. For pressurised circuits, it can be used at higher temperatures, until 350° C.



Flash point	140° C
Fire point	155° C
Pour point	-65° C
Boiling point	290° C
Auto-ignition temperature	490° C
Minimum temperature in use	-40° C
Maximum temperature in use	
Liquid	350° C
Film	370° C

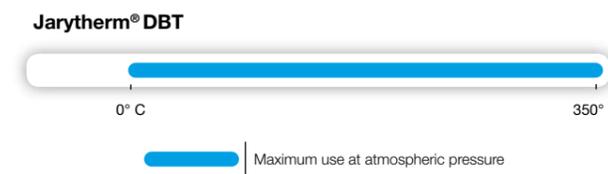
SUGGESTED APPLICATIONS:

Fine chemicals - Pharmaceuticals industries for cooling-heating cycles in unpressurised circuits operating at temperatures ranging from -40° C to 290° C.

JARYTHERM® BT06 is registered trademark of ARKEMA

JARYTHERM® DBT

A blend of dibenzyltoluene isomers, is specially suitable for heating under atmospheric pressure within the 250° C - 350° C temperature range. It is primarily used in the chemical and plastics converting industries, although it is also suitable for all processes requiring high temperature levels.



Flash point	200° C
Fire point	230° C
Pour point	-34° C
Boiling point	390° C
Auto-ignition temperature	470° C
Minimum temperature in use	0° C
Maximum temperature in use	
Liquid	350° C
Film	370° C

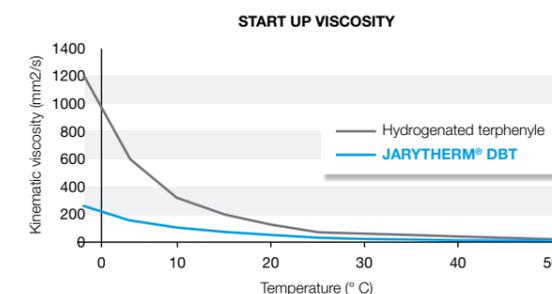
SUGGESTED APPLICATIONS:

Oil and Gas Processing - Refining - Plastics and Polymer Manufacturing - Synthetic Fiber Manufacturing - Specialty Chemical Manufacturing - Chemical Manufacturing - Biofuel Manufacturing - Desalination - Wood & paper - Food & Beverage Processing.

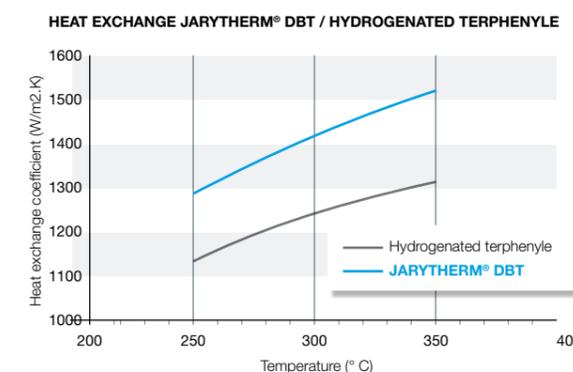
JARYTHERM® DBT is registered trademark of ARKEMA

COMPARAISON WITH THE MARKET LEADER

JARYTHERM® DBT has lower viscosity at room temperature, thus demonstrating better pumpability at start-up.



JARYTHERM® DBT demonstrates higher Heat Transfer Efficiency



TOTAL
LUBRICANTS

JARYTHERM®

Based on the long term relationship between the Group Total and Arkema, Total Lubricants has been selected as the official and exclusive distributor of the high temperature heat transfer fluids: JARYTHERM® range, at the global level.

JARYTHERM® products are synthetic heat transfer fluids formulated to meet a large variety of applications ranging from chemical process to biomass energy production. Their performance is widely homologated and recognized by numerous customers.