

## Lubricants – Industrial oils

Version: **EEE/78a**

# Valvoline<sup>™</sup> Heat Transfer Oil Synthetic 46

Valvoline Heat Transfer Oil Synthetic 46 is a fully synthetic thermal fluid, produced from high quality ester, non-toxic base oils and special additives. Valvoline Heat Transfer Oil Synthetic 46 contains high temperature antioxidants and components that prevent cracking and build up of deposits as a result of the high temperatures in which they are applied and which prevent the thermal decomposition of the product.

Performance levels
ISO L-QA/QC
ISO 6743-12
DIN 51 522

## Applications

Recommended for use in high temperature closed heat transfer systems with an operating temperature between -15 °C to +320 °C (bulk temperature) where outstanding oxidation resistance is needed.

Valvoline heat Transfer Oil Synthetic 46 is used as heat transfer medium in heating systems:

- in the rubber manufacturing industry;
- in the plastics manufacturing industry;
- in asphalt bases;
- in chemical industry;
- in pharmaceutical industry;
- in textile industry;
- in duplicators and other vessels for thermal processing of food products where there is no possibility of oil contact with food products;
- in dryers;
- Especially recommended as heat transfer medium in open heating systems in laboratories where the reduced volatility is required, i.e. safer operation.

## Features & Benefits

### Wide temperature range

The suitable temperature range in circulation pumps is between -15 °C to +320 °C (bulk temperature).

### Long term stability

Efficient anti-corrosion protection.  
Excellent chemical and oxidation stability.  
Good hydrolytic stability and compatibility with mineral oils.

### High temperature life

Valvoline Heat Transfer Oil Synthetic is specially formulated to tolerate continuous high temperatures, providing maximum oxidation stability and protecting against carbon deposits and sludge.

Reduced volatility. Lubricants based on mineral oil, especially at high operating temperatures, have the tendency to evaporate, the viscosity increases and the product becomes cloudy and thickens. By using synthetic oils these problems are largely eliminated.

## Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit [www.valvolineeurope.com](http://www.valvolineeurope.com)

## Typical properties

Typical property characteristics are based on current production. Whilst future production will conform to Valvoline specifications, variations in these characteristics may occur.

Valvoline Heat Transfer Oil Synthetic 46	
Viscosity, mm <sup>2</sup> /s @ 100 °C. ASTM D-445	8,9
Viscosity, mm <sup>2</sup> /s @ 40 °C. ASTM D-445	46
Viscosity Index ASTM D-2270	178
Pour Point, °C ASTM D-97	-18
Specific Gravity @ 15.6°C. ASTM D-1298	0,888
Flash Point, COC, °C. ASTM D-92	280
Maximum recommended temperatures of application, °C	
- open system	220
- closed system	320

This information only applies to products manufactured by:

Ellis Enterprises East doo Kruševac,  
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## Health & Safety

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet <http://sds.valvoline.com>

## Protect the environment

Take used oil to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.

## Storage

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

Replaces – EEE/78