



# Dalian Richfortune Chemicals Co., Ltd.

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## **RFCTHERM-400**

### **Product Description**

RFCTHERM-400 is a eutectic mixture of 73.5% diphenyl oxide (DPO) and 26.5% biphenyl, it is a synthetic heat transfer fluid designed to meet the demanding requirements of vapor phase systems from 257° C to 400° C or liquid phase systems from 12° C to 400° C, It combines exceptional thermal stability and low viscosity for efficient, dependable, uniform performance in a wide optimum use range, RFCTHERM-400 has the highest thermal stability of all organic heat transfer fluids. It is miscible and interchangeable (for top-up or design purposes) with other similarly constituted diphenyl-oxide (DPO)/biphenyl fluids, such as: Therminol-vp-1, Dowtherm-A, Therm-S 300 and Diphyl.

### **The Temperature Range for use**

Liquid: 12 to 400

Vapor: 257 to 400

### **Applications**

It can be used in a wide variety of industries, such as:

- Concentrated Solar Power Systems,
- PET production
- Synthetic Fiber plants
- Many other applications that require a high temperature heat transfer fluid.

### **Our Production Capacity**



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At present: 5000mt/a.

## Typical Properties

Property	Standard	Method
Apperance	Clear Water White Liquid	
Density g/cm <sup>3</sup>	1.050-1.075	GB No233
Viscosity mm <sup>2</sup> /S	4.0-4.4	GB265
Water(mg/Kg)	300	GB6283
Crystal Point	12.0	GB7533
Maximum Film Temperature	425	
Normal Boiling Point	257	GB7534
Flash Point	124	ASTMD-92
Fire Point	127	ASTMD-92
Autoignition Temperature	621	ASTMD-2155
Kinematic Viscosity(40 )	2.48cst	
Optimum Use Range	Liquid: 12-400 Vapor: 260-400	



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Constituent	Biphenyl (wt)%	26.5±1.0	Q/HC179-80
	Diphenylether(wt) %	73.5±1.0	Q/HC179-80
Average Molecular weight		166	
S		5ppm	
CL		10ppm	