# **PETRONAS DANOL XHT**



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### PREMIUM HEAT TRANSFER OILS

PETRONAS DANOL XHT are premium quality heat transfer oils blended from highly refined mineral oils and selected anti oxidants for superior performance. They have high specific heat and thermal conductivity within operating temperature range and hence provide rapid heating and greater flexibility in heat transfer systems.

## **Applications**

 These are suitable as heat transfer medium in indirect closed fluid heat transfer systems operating at bulk temperature upto 320°C. Typical applications include heat transfer system used in textile, pharmaceutical, chemical and process industries.

#### **Benefits**

- · Low vapour pressure.
- Low toxicity.
- Non corrosive.
- High heat transfer coefficients ensures better efficiency.
- Longer service life.

## **Typical characteristics**

TEST DESCRIPTION	METHOD	DANOL XHT 24	DANOL XHT 32
DENSITY @ 29.5 °C,	ASTM D 1298	0.85	0.85
POUR POINT, max °C	ASTM D 97	-21	-21
FLASH POINT, min °C	ASTM D 92	232	232
FIRE POINT min °C	ASTM D 92	260	260
AUTO IGNITION TEMPERATURE °C	ASTM G 72	380	380
INITIAL BOILING POINT, min °C	ASTM D 2892	365	365
FINAL BOILING POINT °C		440	440
KINEMATIC VISCOSITY, cSt	ASTM D 445	_	_
@ 40 °C		24	32
@ 100 °C		5	6
VISCOSITY INDEX	ASTM D 2270	130	130
TOTAL ACID NUMBER, mg KOH/g	ASTM D 664	0.05	0.05
COPPER CORROSION TEST, @ 100 °C for 3 hrs	ASTM D 130	1A	1A
CCR % MASS	ASTM D 189	< 0.01	<0.01
SULPHATED ASH, %	ASTM D 874	0.005	0.005
RBOT, mins (°C)	ASTM D 2272	>1440	>1440
COEFFICIENT OF THERMAL EXPANSION /°C, @15°C	_	0.00076	0.00076
SPECIFIC HEAT @ 15 °C	kJ/Kg °C	1.85	1.92
THERMAL CONDUCTIVITY @ 15 °C	W/m <sup>⁰</sup> C	0.13	0.12

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#### **Customer Advice**

This product data sheet and the information contained therein is believed to be accurate. Data provided is based on standard tests under laboratory conditions and is given as a guide only. No responsibility is taken by the company for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HQ technical engineers.

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