

PRODUCT & TECHNICAL DATA

CASTROL PERFECTO HT5 Heat transfer oil

DESCRIPTION

Perfecto HT 5 is based on a solvent refined, high viscosity index mineral oil specially selected for its high thermal and oxidation stability.

APPLICATIONS

Perfecto HT 5 is primarily intended for use in enclosed and sealed systems. They also have applications, at lower temperatures, in systems open to the air.

Perfecto HT 5 has a low viscosity which is essential when operating under turbulent flow conditions to achieve very high heat transfer rates.

FEATURES/BENEFITS

- Excellent heat transfer properties.
- High operating temperature capability.
- Minimises deposits in heat exchangers.
- Maintains heat transfer efficiency.

CARE AND HANDLING

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

PACKAGING AND STORAGE

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Products should not be stored above 60°C, exposed to hot sun or freezing conditions.



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TECHNICAL DATA

TYPICAL CHARACTERISTICS	UNIT	TEST METHOD	VALUE
Perfecto HT			5
Density @ 15°C	g/ml	ASTM D4052	0.868
Viscosity @ 40°C	cSt	ASTM D445	30.5
Viscosity @ 100°C	cSt	ASTM D445	5.28
Viscosity Index		ASTM D2270	106
Pour Point	°C	ASTM D97	-9
Flash Point, PMC	°C	ASTM D93	210
Flash Point, COC	°C	ASTM D92	220
Fire Point	°C	ASTM D92	249
Colour		IP 196	2.0
Auto-ignition Temperature	°C	ASTM D1255	357
Neutralisation Value	mgKOH/g	IP 1A	<0.05
Specific Heat @ 15°C	kJ/kg, °C		186
Max film temperature	°C		>340
Thermal Conductivity @ 15°C	W/m°C	ASTM D1160	0.133
Distillation Range			
Initial Boiling Point	°C		343
10% distilled @	°C		390
90% distilled @	°C		454
Thermal Expansion Co-efficient per °C @ 15°C			0.00077

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

GENERAL ADVICE

Further information on all Castrol Marine lubricants is available from any Castrol Marine office or from:

Castrol Marine www.castrolmarine.com
Technology Centre
Whitchurch Hill
Pangbourne
Reading RG8 7QR
United Kingdom

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