



Product Data

Perfecto HT 5

Heat transfer oil

Description

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

Application

Perfecto HT 5 is primarily intended for use in closed heat transfer systems with bulk temperatures up to 300°C. It can also be used in open systems at much lower bulk oil temperatures.

Perfecto HT 5, because of its solvency and high thermal stability serves as excellent Turbine Flushing oil.

Advantages

- Tightly controlled specification helps minimise deposits in heat exchangers in order to maintain heat transfer efficiency
- High operating temperature capability in closed systems with temperatures up to 300°C permitted

Typical Characteristics

Name	Method	Units	Perfecto HT 5
Density at 15°C	ISO 12185 / ASTM D4052	kg/m ³	868
Kinematic Viscosity at 40°C	ISO 3104 / ASTM D445	cSt	30.5
Kinematic Viscosity at 100°C	ISO 3104 / ASTM D445	cSt	5.28
Viscosity Index	ISO 2909 / ASTM D2270	-	106
Pour Point	ISO 3016 / ASTM D97	°C	-9
Flash Point - closed cup method	ISO 2719 / ASTM D93	°C	210
Flash Point - open cup method	ISO 2592 / ASTM D92	°C	220
Fire Point	ISO 2592 / ASTM D92	°C	249
Colour	IP 196	-	2.0
Neutralisation Value	ISO 6618 / ASTM D974	mgKOH/g	<0.05
Specific Heat at 15°C	ASTM D 2766	kJ/kg, °C	186
Thermal Conductivity at 15°C	ASTM D2717	W/m°C	0.133
Distillation Range Initial Boiling Point	-	°C	343
Distillation Range 10% distilled at	-	°C	390
Distillation Range 90% distilled at	-	°C	454
Co-efficient of Thermal Expansion	ASTM D1903	-	0.00077

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

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.

Perfecto HT 5

12 Jul 2019

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries 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. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

The Technology Centre, Whitchurch Hill, Pangbourne, Reading, RG8 7QR, United Kingdom

+44 (0)203 915 7991

www.castrol.com/globalbusiness