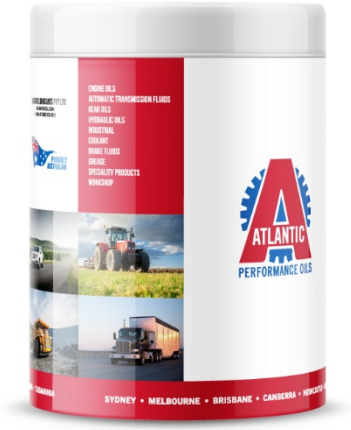
PRODUCT DATA SHEET

ATLANTIC HEAT TRANSFER OIL

Product Description:

Atlantic Heat Transfer Oils are premium heat transfer oils designed for use in indirectly heated closed heat transfer systems. It is based on selected highly refined mineral oils chosen for their ability to provide superior performance in heat transfer systems. Atlantic Heat Transfer Oils provides excellent fluidity, superior heat transfer properties and resists oil cracking, oxidation and thickening. This provides extended oil life, provided efficient fluid heating and good pump circulation is ensured; such that film temperatures on the heater surface do not exceed temperature limits below. Atlantic Heat Transfer Oils are especially suited to heat transfer systems as used in chemical processing plants, textiles and manufacturing etc. where the oil is circulated in a pumped system operating under atmospheric pressure with or without an inert gas blanket. Atlantic Heat Transfer Oils are available in a Low Viscosity ISO 30 grade or a High Viscosity ISO 100 grade.



Features and Benefits:

- Excellent fluidity and high heat transfer properties
- Resists deposit formation
- Resists cracking, oxidation and thickening
- keeps internal surfaces of heat exchangers clean.
- Prevents corrosion

Typical Data:

Typical Physical Characteristics			Low Viscosity	High Viscosity
Density at 15°C	kg/m^3	ISO 12185	855	885
Flash Point PMCC	°C	ISO 2719	210	252
Flash Point COC	°C	ISO 2592	220	270
Fire Point COC	°C	ISO 2592	255	290
Pour Point	°C	ISO 3016	-12	-9
Kinematic Viscosity	°C	ISO 3104		
at 20°C	mm^2/s	-	230	321
at 40°C	mm^2/s	-	30	97
at 100°C	mm^2/s	-	5.4	10.9
at 200°C	mm^2/s	-	-	2.09
at 300°C	mm^2/s	-	-	0.91
Initial Boiling Point ISO 3771	°C	ISO 3771	>355	400
Neutralisation Value	mg KOH/g	ASTM D974	< 0.05	< 0.05
Water Content	%m/m	ISO 3733	360	< 0.1
Ash (Oxidation)	%m/m	ISO 6245	< 0.01	< 0.01
Carbon Residue (Conradson)	%m/m	ISO 10370	0.02	0.06
Copper Corrosion (3h/100°C)		ISO 2160	class 1	class 1
Coefficient Thermal Expansion	per °C	-	0.0008	0.0008

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Typical Characteristics – Low Viscosity (ISO 30)										
Temperature	**ºC**	**0**	**20**	**40**	**100**	**150**	**200**	**250**	**300**	**340**
Density	kg/m^3	876	863	850	811	778	746	713	681	655
Specific Heat Capacity	kJ/kg*K	1.809	1.882	1.954	2.173	2.355	2.538	2.72	2.902	3.048
Thermal Conductivity	W/m*K	0.136	0.134	0.133	0.128	0.125	0.121	0.118	0.114	0.111
Prandtl No.		3375	919	375	69	32	20	14	11	9

Typical Characteristics- High Viscosity (ISO 100)										
Temperature	**ºC**	**0**	**20**	**40**	**100**	**150**	**200**	**250**	**300**	**340**
Density	kg/m^3	894	882	870	834	803	773	743	712	688
Specific Heat Capacity	kJ/kg*K	1.925	1.925	2.007	2.254	2.459	2.665	2.871	3.076	3.241
Thermal Conductivity	W/m*K	0.169	0.165	0.162	0.151	0.142	0.134	0.125	0.116	0.109
Prandtl No.		17582	3300	1048	135	56	32	22	17	15

Atlantic Thermal Transfer Oil can be used in high temperature continuous heat transfer equipment with the following application limits:

Max. film	340°C
Max. bulk	320°C

Specifications/ Performance Levels:

- **ISO:** 6743-12
- **DIN:** 51522

PACK SIZE	LOW VISCOSITY HEAT TRANSER OIL PRODUCT CODE	HIGH VISCOSITY HEAT TRANSER OIL PRODUCT CODE
20 Litre	HTMLVIS2	HTMHVIS2
205 Litre	HTMLVIS4	HTMHVIS4
1000 Litre	HTMLVIS5	HTMHVIS5

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QAS INTERNATIONAL ISO 45001: 2018 REGISTERED COMPANY

15 February 2021

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