



P R O D U C T D A T A

WAF Thermoil Light, Medium, Heavy.

Market Applications:

These oils are primarily intended for use in enclosed and sealed systems. They also have applications, at lower maximum temperature in systems open to the air. It is now customary to design heat transfer systems for operation under turbulent flow conditions in the heat exchanger unit, since very high rate of heat transfer can then be obtained. This necessitates the use of a relative low viscosity fluid.

WAF Thermoil LIGHT is the usual recommendation for his purpose. **WAF Thermoil MEDIUM** and **HEAVY** are for use when high viscosity oil is specifically required.

Product Description:

The **WAF Thermoil** series are based on mineral oils selected for their high thermal stability.

Oxidation Resistance

- *Sealed systems
- *Enclosed systems
- *Open systems

Thermal Stability (in enclosed systems):

Whilst the maximum bulk temperature is 300 deg c, care must be taken to avoid film temperatures in excess of 320 deg c

HANDLING, HEALTH AND SAFETY

Lubricants consisting of highly refined mineral oils with specific additives.

In normal conditions of use, these lubricants present no particular toxic hazard.

All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin. Prevent any risk of splashing, and keep away from combustible materials.

Store under cover and away from any risk of contamination.

TYPICAL DATA

WAF Thermoil HEAT TRANSFER OILS

PROPERTIES	METHOD	UNITS	LIGHT	MEDIUM	HEAVY
Thermoil					
Density					
@ 15 deg c	IP160	kg/l	0.875	0.890	0.905
@ 100 deg c	-	"	0.819	0.837	0.847
@ 200 deg c	-	"	0.758	0.776	0.786
@ 300 deg c	-	"	0.699	0.717	0.727
Thermal conductivity					
@ 15 deg c	-	w/m deg c	0.133	0.131	0.129
Specific Heat	-	KJ/kg deg c	1.86	1.84	1.83
Kinematics Viscosity	IP71				
@ 25 deg c	-	cSt	63.8	270	1376
@ 40 deg c	-	cSt	30.5	100	475
@ 50 deg c	-	cSt	21.0	62.5	258
@ 100 deg c	-	cSt	5.38	10.9	31.4
@ 150 deg c	-	cSt	2.40	4.04	9.30
@ 200 deg c	-	cSt	1.39	2.19	4.44
@ 250 deg c	-	cSt	0.90	1.40	2.45
@ 300 deg c	-	cSt	0.67	1.04	1.60
VI	IP226		-	100	90
Colour	IP296		-	2.0	2.5
Pour Point	IP15	deg c -9		-12	-6
Flash Point P.M closed	IP34	"	207	243	267
Flash point P.M open	IP35	"	222	264	318
Flash Point	IP35	"	249	300	345
Spontaneous Ignition Temp	MOORES	"	438	420	447
Neutralisation Value	IP 1A	mgKoh/g	<0.05	<0.05	<0.05
Distillation Range		ASTM D1160			
Initial B.Pt	-	deg c	367	-	-
10% Distilled	-	"	403	430	475
90% Distilled	-	"	462	500	585

Pack Size:, 205Litres, Bulk.