



HEAT TRANSFER OIL

ADDINOL HEAT TRANSFER OIL XW 15

PRODUCT DESCRIPTION

ADDINOL Heat transfer oil XW 15 is a synthetic fluid based on alkylated aromatic hydrocarbons (alkylbenzene).

The ideal combination of base oil components guarantees best corrosion protection and improved oxidation stability in closed heating systems.

APPLICATION

- Excellent suitability as heat transfer medium in closed heating systems as well as in combined heating-cooling systems
- Applicable at a maximum flow temperature up to +300°C and a maximum film temperature up to +320°C
- Suitable in applications where direct heating is impossible
- Usable where an operation without pressure is preferred
- Particular suitability for careful and/or safe heating of dangerous or sensitive substances
- Long-term application also at a stable and high thermal loads

SPEZIFICATION

Meets the requirements acc. to:

- DIN ISO 6743-12 QB

PLEASE NOTE !

To avoid oxidative damages of the heat transfer oil, the compensation reservoir should be filled with an inert gas (typically with nitrogen).

A nitrogen atmosphere is absolutely necessary at application temperatures within the flash point (please see chart on the back).

Please consider the product compatibility during the product changeover! The used oil should be drained completely from the system. If necessary, flush the system with the new product.

DELIVERY

Delivery preferable in containers, drums and 20L cans.

CHARACTERISTICS

- Highest thermal stability of the base components
- Very low tendency to carbonization
- High initial boiling point under atmospheric pressure
- Best corrosion protection
- Good viscosity-temperature behaviour
- Stable flash point
- Outstanding cleaning efficiency

ADVANTAGES AND BENEFITS

- Clearly extended oil operating time compared to mineral based heat transfer oils
- Considerably lower tendency to form deposits compared to mineral oils; especially for long term application
- Safe heating in closed systems
- Very good protection of plant components
- Lower energy consumption during heating process and under extreme conditions
- Durable reliable application
- Dissolution of deposits and therefore better heat transfer



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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition/unit		Heat transfer oil XW 15	Method acc. to
Colour			max. 2.0	ASTM D 1500
Temperature range		°C	-50 up to +300 please see notes!	
Max. film temperature		°C	+320	
Density	at 15°C	kg/m ³	typ. 863	DIN 51757
Viscosity	at 40°C	mm ² /s	typ. 22.5	ASTM D 7346
Flash point	PM	°C	min. 205	DIN EN ISO 2719
Pour point		°C	max. -55	ASTM D 7346
Initial boiling point		°C	min. 344	ASTM D 1160
Content of water		ppm	max. 100	DIN EN ISO 12937

APPLICATION TECHNICAL PROPERTIES

Temperature °C	Density kg/m ³	specific heat kJ/kg*K	heat conductance W/mK	kin. viscosity mm ² /s	vapour pressure kPa
0	872	1.81	0.136	195	-
20	860	1.89	0.135	56	-
40	848	1.96	0.133	22.5	-
60	836	2.04	0.132	11.3	-
80	824	2.11	0.131	6.6	-
100	812	2.18	0.129	4.27	-
120	800	2.25	0.128	2.99	-
140	788	2.33	0.126	2.22	-
160	776	2.40	0.125	1.72	-
180	764	2.47	0.123	1.38	0.175
200	751	2.55	0.122	1.14	0.391
220	739	2.62	0.120	0.96	0.819
240	727	2.69	0.119	0.83	1.62
260	715	2.77	0.117	0.72	3.04
280	703	2.84	0.116	0.64	5.46
300	691	2.91	0.114	0.58	9.4

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We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.