STRUB Vulcotherm Synt 15

Synthetic high performance heat transfer fluid

Art.-No. 30683

Description
For use in the liquid phase in closed heat transfer systems with forced circulation. Can be used over the entire operating range without pressure overlay.

Application
Excellent for indirect heating of reactors, polymerization boilers, distillation columns, processing machines, dryers as well as heat exchangers in process plants and systems for heat recovery.

The upper application limit corresponds to a feed temperature of 350°C. The film temperature should not exceed 380°C.

Features and advantages
- excellent oxidation and temperature resistance
- very advantageous thermotechnical parameters
- non-corrosive to the metallic materials commonly used in plant and machine construction
- no deposits on the walls and no silting when used within its operating limits
- fillings can be used for several years without significant changes

Notes
Circuits are advantageously operated with an inert gas back pressure of less than 100 mbar at the expansion tank. Nitrogen has proven to be a suitable inert gas. The product is compatible with pure graphite, PTFE and fluoroelastomers. These materials can be used as base materials for seals.
When selecting gaskets, the gasket manufacturer's specifications on temperature resistance and mechanical strength must be observed. Rubber-elastic materials can swell and should not be used.

Technical data

Color		waterbright
Density at 20°C	g/Liter	1.044
Viscosity at 20°C	mm^2/s	47
Viscosity at 40°C	mm^2/s	16
Flash point	°C	200
Self-ignition point	°C	450
Pourpoint	°C	- 36
Boiling range at 1013 mbar	°C	385 - 395
Permissible flow temperature	°C	350
Permissible film temperature	°C	380
Pumpability limit	°C	- 5
Thermotechnical material data		see page 2

Transport
ADR/SDR Class 9, M6, Ziffer 11c
UN-Code 3082

Disposal
LVA VeVA / EAK: 13 03 08

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Water hazard class

Switzerland: P (Y) 2
Germany: 2

Technical data

Temperature °C	Density kg / m³	Specific Heat kJ / kgK	Thermal conductivity W / mK	Kinematic Viscosity mm² / s	Vapor pressure hPa
0	1058	1.48	0.133	321	-
20	1044	1.55	0.131	47	-
40	1030	1.62	0.128	16.5	-
60	1016	1.70	0.125	8.1	-
80	1001	1.77	0.123	4.7	-
100	987	1.85	0.120	3.1	
120	973	1.92	0.117	2.3	
140	958	1.99	0.115	1.8	0.1
160	944	2.07	0.112	1.4	0.5
180	930	2.15	0.110	1.2	1.7
200	915	2.22	0.107	0.92	5.0
220	901	2.29	0.104	0.77	12
240	887	2.37	0.102	0.65	27
260	873	2.44	0.099	0.57	54
280	858	2.52	0.096	0.50	98
300	844	2.59	0.094	0.45	200
320	830	2.67	0.091	0.40	315
340	815	2.74	0.088	0.36	560
360	801	2.82	0.086	0.32	860

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