## **NEVASTANE HTF**





Food Industry



## Heat transfer fluid for incidental food contact.

APPLICATIONS				
	<ul> <li>NEVASTANE HTF is a heat transfer fluid designed for closed circuits and a large number of applications in the food and pharmaceutical industries: double-boilers, autoclaves, reactors, ovens, presses and moulds.</li> <li>Process temperature: &lt;300 °C (330 °C in the oil film) without air contact.</li> <li>To ensure the consistency of the physical and chemical properties, a monitoring by analyses of the NEVASTANE HTF in use is recommended.</li> </ul>			
SPECIFICATIONS				
	<ul> <li>The formulation of NEVASTANE HTF based on white mineral oil complies with FDA, chapter 21 CFR, 178.3570.</li> <li>NEVASTANE HTF is NSF H1 registered: No 131004.</li> <li>NEVASTANE HTF is kosher and ISO 21469 certified.</li> </ul>			
International standards	<ul> <li>NEVASTANE HTF is a biostable product, it does not promote the development of bacteria and mould.</li> <li>ISO 6743/12 class L family QC</li> <li>DIN 51502 class L</li> </ul>			
ADVANTAGES				
	• <b>NEVASTANE HTF</b> is recommended for use where incidental contact with food may occur. Using maintenance lubricants which have been registered H1 with NSF minimizes your critical control points as required by HACCP.			

- Exceptional resistance to high temperature.
- Long service life under severe conditions of use.

TYPICAL CHARACTERISTICS	METHODS	UNITS	NEVASTANE HTF
Appearance	Visual	-	Bright and Clear
Density @ 15°C	ISO 12185	-	0.854
Kinematic viscosity @ 40 °C	ISO 3104	mm²/s	32
Kinematic viscosity @ 100 °C	ISO 3104	mm²/s	5
Flash point OC	ISO 2592	°C	210
Fire point OC	ISO 2592	°C	240
Pour point	ISO 3016	°C	- 6
Bulk temperature limit*	-	°C	310
Oil layer temperature limit*	-	C°	330

Above characteristics are mean values given as an information.

\* without air contact

## **Recommendations :**

- Store the product at ambient temperature
- Minimize the periods of exposure to temperatures above  $35^\circ\text{C}$
- Shelf life: 5 years from date of manufacture (unopened).

TOTAL LUBRIFIANTS Industrie & Spécialités 04-07-2012 (supersedes26-01-2012) NEVASTANE HTF 1/1

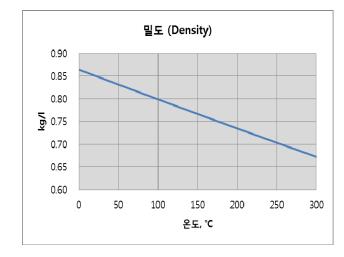


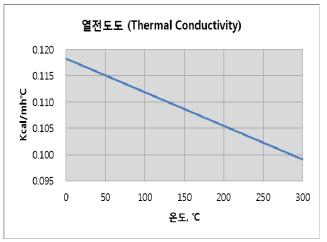
This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com.

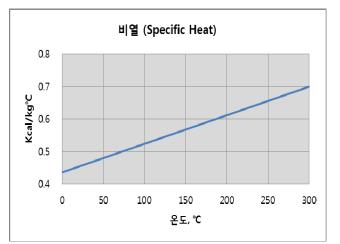


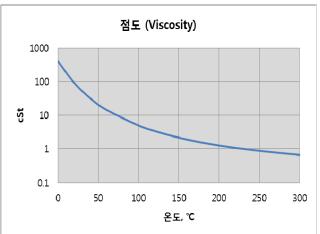
## ▶ 물리적 특성

온 도 Temperature	비 열 Specific Heat	<mark>열전도도</mark> Thermal Conductivity	<mark>밀도</mark> Density	점 도 Viscosity
(°C)	(kcal/kg℃)	(kcal/m.hr.℃)	(kg/l)	(cSt)
0	0.436	0.1183	0.8643	400.9
20	0.454	0.1170	0.8511	92.10
40	0.471	0.1157	0.8379	32.00
60	0.506	0.1144	0.8248	14.61
100	0.524	0.1119	0.7988	5.00
120	0.541	0.1106	0.7858	3.42
140	0.559	0.1093	0.7730	2.50
160	0.576	0.1080	0.7601	1.92
180	0.594	0.1068	0.7474	1.54
200	0.611	0.1055	0.7347	1.27
220	0.629	0.1042	0.7221	1.08
240	0.646	0.1029	0.7095	0.94
260	0.664	0.1017	0.6969	0.83
280	0.682	0.1004	0.6845	0.74
300	0.699	0.0991	0.6721	0.67









서울시 중구 남대문로 5 가 6-1 YTN 타워빌딩 15 층 에쓰-오일토탈윤활유㈜ 1/2

TOTAL NEVASTANE HTF 2012. 4. 27



선정된 우수한 오일이라도 사용하는 기계 및 윤활유의 보수관리가 충분히 이루어지지 않으면 그 기능을 완전히 발휘하지 못하므로, 정기적으로 사용유를 분석하여야 모든 트러블을 미연에 방지할 수 있습니다.