

Idemitsu Kosan Co.,Ltd. Product Data





Daphne Hi-Temp Oil SM

Application:

Hot quenching oil is used at high operating oil temperature, so if the quenching oil is in contact with air, such as in a mesh belt furnace oil bath, it is oxidized and deteriorates, and the brightness tends to deteriorate in a relatively short time. Daphne High Temp Oil SM is developed for open-type oil tanks, such as mesh belt furnace, and has excellent brightness life even under conditions where the quenching oil comes into contact with air.

Characteristics:

- Excellent oxidation stability and particularly difficult to form sludge provide long life brightness.
- Even if sludge is generated, it is difficult to disperse in oil due to the use under severe conditions. Therefore, it is relatively easy to recover the brightness by applying it to a centrifuge, etc.
- Because of its excellent oxidation stability, it is highly resistant to thermal decomposition and is a quenching oil with little change in cooling characteristics over time.

Test items			Value	
Color	(ASTM)		2. 5	
Flash Point	(COC)	C°	284	
Kinematic Viscosity	@40°C	mm²/s	131.9	
	@100°C	mm²/s	14. 23	
Pour point		°C	—15	
Acid Number		mgKOH/g	0. 13	
Carbon Residue		wt%	0. 54	
H-Value	@120°C	CM ^{−1}	0. 102	

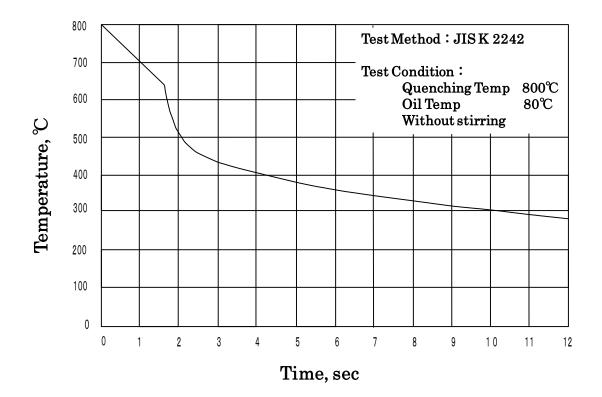
Specifications:

Lubricants info.



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Cooling Curve:



Oxidation stability test:

• Test Method : Indiana oxidation stability test

Test Condition : Oil Temp 170°C

Catalyst Cu, Fe

Air blowing volume 10L/h

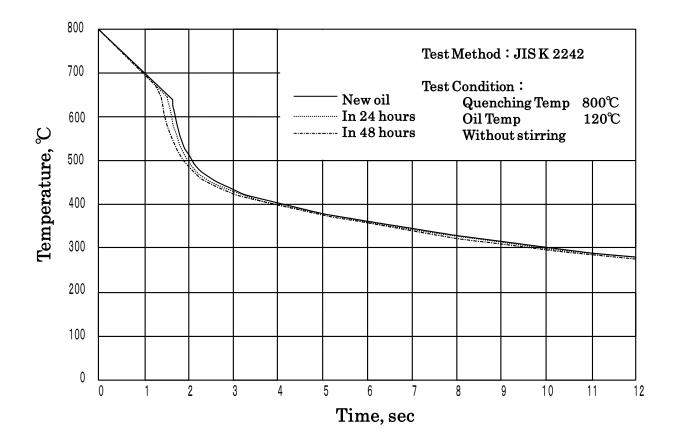
• Result :

Test Items	Test Times	New Oil	24 hours	48 hours
Kinematic Viscosity @100°C	mm²/s	14. 23	14. 32	14. 46
Ratio with new oil		1.00	1.01	1.02
Acid Number	mgKOH/g	0.13	0. 22	0.35
Carbon Residue	wt%	0. 54	0.55	0. 59
insoluble content (n-Pentan)	wt%	_	<0. 01	<0. 01
H-Value @120°C	cm-1	0. 102	0. 105	0. 107

<u>Lubricants info.</u>







•Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provide in the Safety Data Sheet (SDS) are followed.

- •SDS is available upon request through your sales contract office, or via the internet. http://www.idss.co.jp/business/lube
- Due to continual product research and development, the information contained herein is subject to change without notification.

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