

# DAPHNE

## SUPER TURBINE OIL MS32

### Description

Daphne Super Turbine Oil MS32 is recommended for use in turbo systems such as gas turbine and designed to satisfy MS04-MA-CL006 standard.

### Features & Characteristics

Daphne Super Turbine Oil MS32 is epoch-making and super long-life turbine oil produced from highly hydrogenated paraffinic base oils and the additives including low-volatile oxidation inhibitor, rust preventives, and antifoaming agent, with suitable blending ratio.

- (1) Excellent oxidation stability even at high temperature environment such as gas turbine achieves extremely long service life characteristics.
- (2) Sulfur content is extremely low, leading to excellent oxidation stability and discoloration prevention of white metals.
- (3) High lubricity reduces metal wear at lubricating locations in bearings.
- (4) Less generation of sludge and varnish provides ultrahigh performance as a turbine oil.

### Viscosity Grade and Conforming Specification/Approval

Specification	Super Turbine Oil MS 32	
ISO8068 TSA/TGA,TGB/TSGB	○	
JIS K2213 Type 2	○	
ASTM D4304 Type I , III	○	
DIN 51515-1, 51515-2	○	
Confirmed	GEK 32568K	○
	GEK 107395A	○
	GEK 27070	○
	GEK 46506e	○
	GEK 120498	○
Approved	GEK 28143b	○
	MS04-MA-CL006	○

**Chemical and Physical Properties**

Test Item	Test Method	Unit	MS32 Result
Density at 15°C	ASTM D4052	g/cm <sup>3</sup>	0.852
Color(ASTM)	ASTM D1500	-	L1.0
Flash Point (C.O.C)	ASTM D93	°C	220
Viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	32.4
Viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	5.7
Viscosity Index	ASTM D2270	-	119
Acid Number	ASTM D974	mgKOH/g	0.1
Copper Corrosion 100°CX3h	ASTM D130	-	1(1b)
Pour Point	ASTM D97	°C	-17.5
Foaming Sequence I 24°C	ASTM D892	ml	10-0
RPVOT @150°C	ASTM D2272	min	2738
Water separability @54°C to 3m emulsion	ASTM D1401	min	5

**Cautions**

The Oil may turn reddish color due to storage environment, e.g., exposure to ultraviolet light. Please be assured that the color change does not affect the performance of the product.

- Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Safety Data Sheet (SDS) are followed.
- SDS is available upon request through your sales contract office, or via the internet.  
<https://www.idemitsu.com/jp/business/lube/>
- Due to continual product research and development, the information contained herein is subject to change without notificati

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