

DAPHNE MECHANIC OIL

Description

This oil is an industrial multi-purpose lubricant. It is the best lubricant for bearings, gears, and hydraulic fluids when load resistance, heat resistance, stability, and water separation are required at the same time. This oil is highly recommended by various machine manufacturers as lubricants for continuously variable transmissions such as Bayer and PIV.

Features & Characteristics

This is a high-grade lubricant that combines highly hydrogenated and reformed paraffin-based oil with various additives, and belongs to the industrial multi-purpose lubricating oil type.

- (1) Compared with the lubricant of general extreme-pressure type lubricants, the oxidation stability is superior especially at high temperatures.
- (2) This oil has a low coefficient of friction, water separation property, rust prevention and defoaming properties.

Chemical and Physical Properties

Test Item	Test Method	Unit	VG100	VG150	VG220	VG320
Density at 15°C	ASTM D4052	g/cm ³	0.880	0.881	0.881	0.884
Viscosity at 40°C	ASTM D445	mm ² /s	101.0	152.7	219.8	329.4
Viscosity at 100°C	ASTM D445	mm ² /s	11.9	15.9	20.4	26.3
Viscosity Index	ASTM D2270	-	107	108	108	105
Acid Number	ASTM D974	mgKOH/g	0.76	0.76	0.75	0.75
Color(ASTM)	ASTM D1500	-	L1.5	L2.5	L2.0	L2.5
Flash point(COC)	ASTM D92	°C	266	272	282	296
Pour Point	ASTM D97	°C	-15.0	-15.0	-15.0	-15.0
Copper prevention (3h,100°C)	ASTM D130		1(1a)	1(1a)	1(1a)	1(1a)

Package

200L D/M, 20L P/L

※We have any other viscosity grades (10, 32, 46,68)

Precautions for Use

Recycling by clay treatment should be avoided, as this will significantly impair performance.

- 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.
<https://www.idemitsu.com/jp/business/lube/>
- Due to continual product research and development, the information contained herein is subject to change without notification.

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DAPHNE MECHANIC OIL

Description

DAPHNE MECANIC OIL can be used for bearings, decelerators and hydraulic fluid at various industrial machines.

Features & Characteristics

This lubricant is formulated with high-refined base oil and various additives to provide the excellent performance.

- (1) Excellent oxidation resistance assures longer oil life.
- (2) Excellent anti-rust and anti-foaming performance.
- (3) Excellent anti foaming characteristics.

Chemical and Physical Properties

Test Item	Test Method	Unit	VG10	VG32	VG46	VG68
Density at 15°C	ASTM D4052	g/cm ³	0.899	0.867	0.866	0.869
Viscosity at 40°C	ASTM D445	mm ² /s	9.9	31.9	45.8	69.1
Viscosity at 100°C	ASTM D445	mm ² /s	2.4	5.5	6.9	9.1
Viscosity Index	ASTM D2270	-	36	106	107	107
Acid Number	ASTM D974	mgKOH/g	0.14	0.08	0.07	0.04
Color(ASTM)	ASTM D1500	-	L0.5	L0.5	L0.5	L0.5
Flash point(COC)	ASTM D92	°C	152	235	244	252
Pour Point	ASTM D97	°C	-35.0	-30.0	-25.0	-20.0
Copper prevention (3h,100°C)	ASTM D130		1(1b)	1(1a)	1(1b)	1(1b)

Package

200L D/M, 20L P/L

※We have any other viscosity grades (100, 220, 320)

- 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.
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