

Infineum D1222

Description

Infineum D1222 is a DI package optimised to formulate API SF/CC in mono-grade and multi-grade. Infineum D1222 can also be treated to formulate SF/CD to SB/CA. When used in conjunction with Infineum C9340, the package can be used to formulate oils meeting API SF/CF. A booster can also be provided for SG/CF-4/CD quality.

Performance

Performance Level:	SAE Viscosity Grade:	Mass %:
API SG/CF-4/CD	10W-30, 15W-40, 20W-50	6.5 + Infineum D1225 at 1.9 %
API SG/CD	10W-30, 15W-40, 20W-50	6.3 + Infineum D1225 at 1.9 %
API SF/CF	15W-40, 20W-50, 20W-40	4.2 + Infineum D1212 at 2.5 %
MB-Approval 227.1		
ACEA E1-96		
Allison C4		
API CF	10W	4.2 + Infineum D1212 at 2.5 %
API SF	30, 40, 50	4.2 + Infineum D1212 at 2.5 %
MB-Approval 227.0		
ACEA E1-96		
Allison C4		
API CF	10W	4.7 + Infineum C9340 at 0.92 %
API SF	15W-40, 20W-40, 20W-50, 20W, 30, 40, 50	4.7 + Infineum C9340 at 0.92 %
API CD	10W	4.1 + Infineum C9340 at 0.51 %
API SF	15W-40, 20W-40, 20W-50, 20W, 30, 40, 50	4.1 + Infineum C9340 at 0.51 %
MAN 270		
API SF/SE/CC	10W-30, 10W	4.9
API SF/SE/CC	15W-40, 20W-40, 20W-50, 20W, 30, 40, 50	4.1
API SD/CC	20W, 30, 40, 50	2.5 + Infineum C9340 at 0.35 %
API SD/CC	20W, 30, 40, 50	3.6
API SC/CC	15W-40, 20W-40, 20W-50	2.2 + Infineum C9340 at 0.45 %
API SC/CC	15W-40, 20W-40, 20W-50	3.4
API SC/CC	20W, 30, 40, 50	2.0 + Infineum C9340 at 0.49 %
API SC/CC	20W, 30, 40, 50	3.3
API SB/CB	20W, 30, 40, 50	1.3 + Infineum C9340 at 0.25 %
API SB/CB	20W, 30, 40, 50	2.0
API SB	20W, 30, 40, 50	1.3

CF data is fully licensable in selected Group I stocks. SG/CD and SG/CF-4/CD is quality level.

Typical Inspections

Property:	Value ^(a) :	Unit:	Method ^(b) :
Appearance	Brown viscous liquid		ITM 50-022
Base Number	111	mg KOH/g	ASTM D2896
Boron	0.11	%(m)	ASTM D5185
Density @ 15 C, kg/m3	1001	kg/m3	ASTM D4052
Flash Point Deg C	110 Minimum	°C	ASTM D93

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Kinematic Viscosity @ 100 C	156	cSt	ASTM D445
Kinematic Viscosity @ 40 C	3504	cSt	ASTM D445
Magnesium	2.23	%(m)	ASTM D5185
Mineral Oil	40	%(m)	Calculated
Nitrogen	0.54	%(m)	ASTM D5291
Phosphorus	1.96	%(m)	ASTM D4927
Sulfated Ash	12.0	%(m)	Calculated
Water	0.3	%(m)	ASTM D95
Zinc	2.15	%(m)	ASTM D4927

(a)Not a specification, (b)Methods typically used by Infineum manufacturing plants

Handling / Precautions

Follow precautions normally taken for handling lube oil stocks. This product is temperature sensitive. Do not heat over the maximum loading / unloading temperature to avoid possible release of extremely odorous alkyl mercaptans and/or toxic hydrogen sulfide.

Localized high temperatures should be avoided during heating, especially when product cannot be agitated. Electrical, steam or hot oil heating systems with a self limiting maximum temperature not exceeding 120 Deg. C/250 Deg. F (e.g. low pressure steam at 2 bar(g) or 30 psig) are recommended.

It is strongly recommended that for long term storage the temperature should not exceed 50 °C.

Min Load/Unload Temp: 55 °C (131 °F)
Max Load/Unload Temp: 65 °C (149 °F)
Vis @ Min Load/Unload Temp: 1,330 cSt
Vis @ Max Load/Unload Temp: 760 cSt
Maximum Storage Temperature: 60 °C (140 °F)
Do not reheat above: 65 °C (149 °F)

For detailed data please refer to the relevant MSDS.

Further Information

For further information please contact your local Infineum affiliate or representative.

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