

Nyfrost 46 is a mid-viscosity, wax-free, hydrotreated naphthenic ISO VG 46 base oil to be used as a refrigeration fluid.

Applications

Nyfrost 46 is intended for use in refrigerators using refrigerants such as Isobutane (R600a), Ammonia (R717) and CFC's (R12 and R 22).

Performance and benefits

The benefits of using naphthenic base oils for this application are the high solvent power and the very good low temperature properties that are leading to good floc points for the refrigerant-oil mixture. Nyfrost 46 has a very low pour point, good cold flowing properties, and high thermal and chemical stability. It is not corrosive towards iron, copper or aluminium.

Product description

Nyfrost 46 is a hydrotreated naphthenic base oil, classified as an API Group V base oil. The viscosity at 40°C is 46 cSt for this product.

There's more to us than this

We're delighted you chose one of our base oils. If you have any questions about other products and services, get in touch with your local Nynas contact. Besides top quality oils, we offer a wide range of services, including rapid delivery worldwide, training, seminars and much more. All you have to do is ask. Find out more at www.nynas.com



Nyfrost 46

PROPERTY	UNIT	TEST METHOD ASTM	SPECIFICATION LIMITS		TYPICAL DATA
			MIN	MAX	
Physical					
Density, 15°C	g/cm ³	D 4052	0.900	0.920	0.910
Viscosity, 40°C	mm ² /s (cSt)	D 445	41.4	50.6	46
Viscosity, 100°C	mm ² /s (cSt)	D 445			5.4
Flash Point, COC	°C	D 92			194
Flash Point, PM	°C	D 93	174		180
Pour Point	°C	D 97		-30	-36
Colour		D 1500		1.0	<1.0
Cold flow determination in a U-tube	°C	DIN 51568			
Floc point - R12	°C	DIN 51351			-31
Floc point - R22	°C	ASHRAE 86			
Floc point - R600A	°C	DIN 51351			-50
Chemical					
Copper Strip, 100°C, 3hrs,		D 130		1	1
Sulphur	%	D 2622			0.06
Neutralization value	mg KOH/g	D 974		0.03	<0.01
Hydrocarbon Type Analysis		IR-method			
C _A	%				15
Carbon-Type Composition					
C _A	%				11
C _N	%				41
C _P	%				48
Electrical					
Breakdown voltage	kV	IEC 156	40		>45

Nyfrost 46 is a naphthenic based refrigerating oil meeting specification BS 2626:1992.

Severely Hydrotreated Base Oil
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