

CIRRUS SYNTHETIC

GENERAL DESCRIPTION

CIRRUS synthetic gear & bearing lubricants are formulated using synthesized hydrocarbon fluid and select additives to enhance oxidation resistance and provide maximum protection against wear, rust, corrosion and foaming. These PAO based fluids provide significantly better thermal and oxidation stability, as well as increased protection against the loss of viscosity than do conventional good quality mineral oils. The inherently high viscosity index of these oils provides higher viscosities and therefore greater film thickness at higher temperatures and lower viscosities for easy start-up and mini-mal internal friction at lower temperatures. The low coefficient of friction of the CIRRUS gear & bearing lubricants substantially reduces power consumption and gearbox operating temperature, further prolonging the useful life of the lubricant.

APPLICATION

CIRRUS synthetic gear & bearing lubricants are recommended for use under severe high or low temperature conditions when lubricating industrial enclosed gears and heavily loaded plain or rolling element bearings. They are particularly recommended for applications where high oil temperatures result in short oil life or high maintenance costs. CIRRUS 32 through CIRRUS 1000 are also recommended for use in applications where the corrosion of yellow metals is a concern, as these lubricants do not contain additives which tend to attack metals such as brass, bronze or copper. The CIRRUS synthetic gear and bearing lubricants are compatible with essentially all seal materials, plastics and paints, including nitrile Buna N, neoprene, viton, teflon, polyethylene, polyurethane ether, fluorocar-bon, polyacrylate, polysulfate, ethylene acrylic, epoxy, plastisol, PVC, acrylic paint and lacquer.

August 22, 2012

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PRODUCT DATA SHEET

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NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suit ability. Product typical this publication are current as of November 24, 2010.

Physical Properties

GEAR & BEARING LUBRICANT

CIRRUS SYNTHETIC

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CIRRUS SYNTHETIC										
CIRRUS	32	46	68	100	150	220	320	460	680	1000
ISO Grade	32	46	68	100	150	220	320	460	680	1000
AGMA Number	-	-	2	3	4	5	6	7	8	8A
Specific Gravity	0.851	0.849	0.857	0.859	0.865	0.869	0.874	0.881	0.885	0.890
Viscosity										
@ 40°C, cSt	31.6	46.0	64.6	97.8	148.4	233.0	333.7	488.0	729	937.0
@ 100°C, cSt	5.8	7.8	10.1	13.8	18.9	26.3	34.5	44.5	59.5	68.0
@ 100°F, SUS	163	236	329	502	765	1208	1738	2557	3841	5065
@ 210°F, SUS	45.7	52.4	60.4	74.6	96.0	129	167	215	288	338
Viscosity Index	126	138	143	142	144	145	147	144	146	144
Flash Pt. F°(C°)	450 (232)	475 (246)	480 (289)	475 (246)	495 (257)	475 (246)	475 (246)	475 (246)	520 (271)	520 (271)
Pour Pt. F°(C°)	-65 (-54)	-40 (-40)	-44 (-42)	-44 (-42)	-47 (-44)	-45 (-43)	-40 (-40)	-38 (-39)	-30 (-34)	-27 (-33)
Copper Corrosion	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Rust Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG Gear Test	11	11	11	11	11	11	11	11	11	11
	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass