BLUESKY LUBRICANTS

GEAR & BEARING LUBRICANT

CIRRUS SYN EP

PRODUCT DATA SHEET

375 Stewart Road, Hanover Twp., PA 18706 | P: (570)822-1151 | F: (570)823-1910

August 22, 2012

GENERAL DESCRIPTION

CIRRUS SYN EP gear lubricants are formulated with synthetic base stocks and fortified with select additive systems to enhance their exceptional performance. The PAO base fluid used has outstanding oxidation and thermal stability, naturally high viscosity index and excellent low temperature pumpability and fluidity. The unique additive system used provides increased oxidation stability, extreme pressure properties, and maximum protection against wear, rust, corrosion and foaming. In today's world of efficiency improvements, there has been much emphasis placed on reducing energy requirements for equipment used in plant operations. CIRRUS SYN EP gear lubricants have proven to reduce friction, there-by reducing the input power to operate the equipment or increasing the available power output. The reduction of fluid friction results in lower lubricant operating temperatures, prolonging the life of both the lubricant and the equipment. The additive system used in this product not only reduces frictional drag, but also protects gears against failures associated with heavy loading. CIRRUS SYN EP lubricants meets the requirements of U.S. Steel 224 specification, AGMA 9005-D94 specification, DIN 51517 Part 3 CLP specification and API GL-4 Gear Service Category.

APPLICATION

CIRRUS SYN EP lubricants are recommended for use in all types of enclosed gearing as well as plain and rolling element bearings. These lubricants are ideal for heavily loaded low speed gears and bearings where boundary or elasto-hydrodynamic lubrication (EHL) conditions exist, such as in mine hoist gear reducers. They are particularly recommended for gearboxes which operate under excessively high temperatures where good quality conventional oils rapidly oxidize.

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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

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CIRRUS SYN EP	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 EP	3 EP	4 EP	5 EP	6 EP	7 EP	8 EP	8 EP
Viscosity										
@ 40°C, cSt	31.0	42.9	67.1	95.7	147	232	342	490	700	947
@ 100°C, cSt	5.8	7.4	9.9	12.9	17.8	25.4	32.8	43.1	54.2	66.2
Viscosity Index	132	137	130	132	133	139	134	139	134	135
Specific Gravity	0.849	0.851	0.859	0.862	0.868	0.877	0.878	0.882	0.892	0.890
Pour Pt. F°(C°)	-58 (-50)	-40 (-40)	-44 (-42)	-42 (-41)	-49 (-45)	-45(-43)	-40(-40)	-35(-37)	-30(-34)	-20(-28)
Flash Pt. F°(C°)	470 (243)	475 (246)	480 (249)	485(252)	485(252)	485(252)	485(252)	485(252)	485(252)	485(252)
Copper Corrosion	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Rust Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Timken OK, lbs	60	60	65	65	65	65	65	65	65	65
Four-Ball Weld, lbs	200	200	200	200	315	315	315	315	315	400
Four-Ball Scar, mm	.50	.40	.30	.30	.39	.34	.30	.30	.30	.30
FZG Gear Test	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass