

PRODUCT DATA SHEET**GEAR & BEARING LUBRICANT****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.

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454 South Main Street, Wilkes-Barre, PA 18703 | P: (570) 822-1151 | F: (570) 823-1910

PRODUCT DATA SHEET

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

GEAR & BEARING LUBRICANT

CIRRUS SYNTHETIC

| | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 460 | 680 | 1000 |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| CIRRUS | | | | | | | | | | |
| 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 |