Alisyn® Multi-Purpose Grease

Synthetic Hydrocarbon Grease

CHARACTERISTICS

Alisyn MPG is a multipurpose synthetic grease originally developed for military aircraft high-speed turbine engine bearings. It has excellent long life and antirust properties for service at temperatures ranging from -80ºF to 400ºF. It can be operated to 600ºF depending upon speed and load, environmental factors, and relubrication frequency.

APPLICATIONS

Alisyn MPG is highly recommended for use in a wide range of equipment. Use on O-rings, seals, gears, ball, roller, and plain spherical bearings.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES Alisyn Multi-Purpose Grease
Temperature Range			-80 to 400ºF
NLGI No.			2
Unworked Penetration	ASTM D-1403	@77ºF	270
Worked Penetration	ASTM D-1403	60 strokes	285
Worked Stability	FED-STD-791 Method 313	100,000 strokes	310
Dropping Point	ASTM D-2265		550ºF
Evaporation	ASTM D-2595	22 hrs @ 210ºF	0.50%
		22 hrs @ 350ºF	5.40%
Oil Separation	FED-STD-791 Method 321	30 hrs @ 212ºF	0.80%
		30 hrs @ 350ºF	3.50%
Water Washout	ASTM D-1264	24 hrs @ 105ºF	7.00%
Oxidation Stability	ASTM D-942	100 hrs @ 212ºF	-2.5 psi
		500 hrs @ 212ºF	-9.0 psi
Dirt Count	FED-STD-791 Method 3005	10-75 Microns	65/cc
		25-75 Microns	0/cc
		over 75 Microns	0/cc
Rubber Swell	FED-STD-791 Method 3603	"L" stock 168 hrs @ 158ºF	4.0%
Rust Preventative Properties	ASTM D-1743	48 hrs @ 125ºF	1
Load Wear Index	ASTM D-2596	@ 77ºF	48.0
LastNon-seizure		Load/Wear Scar	100 kg/ 0.454mm
Last Seizure		Load/Wear Scar	126 kg/2.590 mm
Weld Point		Load	250 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 1 hr @ 167ºF, 52100 Steel	0.7 mm
		1,200 rpm, 40 kg, 1 hr @ 350ºF, 52100 Steel	0.8 mm
Coef. of Friction		1,200 rpm, 90ºF 15 kg Load	0.09
Gear Wear	FED-STD-791 Method 335	1,000 Cycles 5 lb Load	0.68 mg
		1,000 Cycles 10 lb Load	1.60 mg
High Temperature Performance	ASTM D-3336	300ºF, 10,000 rpm, 50 lb	2,500 hrs +
		350ºF, 10,000 rpm, 50 lb	525 hrs
		350ºF, 10,000 rpm, 5 lb	1,000 hrs +
		400ºF, 10,000 rpm, 5 lb	264 hrs
Low Temperature Torque	ASTM D-1478	@ -65ºF, Starting	1,534 g-cm
		running	649 g-cm
Corrosion on Copper	ASTM D-4048	24 hrs @ 212ºF	1a no Stain