

# Alisyn<sup>®</sup> High Temperature Wheel Bearing Grease

## Synthetic Hydrocarbon Greases

### CHARACTERISTICS

**Alisyn High Temperature Wheel Bearing Grease** is a multipurpose synthetic grease with a wide operating temperature range from -80°F to 400°F, excellent antiwear and antiseize properties, and long life. It can be used up to 600°F depending upon bearing speed and load, operating environment, and lubrication frequency. Molybdenum disulfide solid lubricant is used in this grease to enhance extreme pressure properties and help absorb shock loads.

### APPLICATIONS

This grease is highly recommended as a lubricant for use in roller chains (such as motorcycles, snowmobiles, chain saws and other power equipment), gears, bearings, speedometer cables, etc. It has provided exceptional service in bucket loader pivot bearings, race car wheel bearings operating in 24 hour endurance events, and in boat trailer wheel bearings in wet environments.

PERFORMANCE TEST	TEST METHOD	CONDITION	TYPICAL VALUES
Temperature Range			-80 to 400°F
NLGI No.			2
Unworked Penetration	ASTM D-217	@77°F	284
Worked Penetration	ASTM D-217	60 strokes	304
Worked Stability	FED-STD-791 Method 313	100,000 strokes	312
Dropping Point	ASTM D-2265		550°F
Evaporation	ASTM D-2595	22 hrs @ 210°F	0.90%
		22 hrs @ 350°F	3.26%
Oil Separation	FED-STD-791 Method 321	30 hrs @ 350°F	5.69%
		30 hrs @ 400°F	5.79%
Boiling Water Immersion	FTM-3463		Pass
Oxidation Stability	ASTM D-942	100 hrs @ 212°F	-5.0 psi
		500 hrs @ 212°F	-12.0 psi
Rust Preventative Properties	ASTM D-1743	48 hrs @ 125°F	1
Load Wear Index	ASTM D-2596		59.3
Last Non-seizure		Load/Wear Scar	126 kg/0.49mm
Last Seizure		Load/Wear Scar	250 kg/2.23 mm
Weld Point		Load	315 kg
Steel-on-Steel Wear	ASTM D-2266	1,200 rpm, 40 kg, 2 hrs @ 167°F, 52100 Steel	0.86 mm
		1,200 rpm, 40 kg, 2 hrs @ 350°F, 52100 Steel	0.88 mm
		1,200 rpm, 40 kg, 2 hrs @ 400°F, 52100 Steel	0.99 mm
High Temperature Performance	ASTM D-3336	250°F, 10,000 rpm, 5 lb	1,000 hrs +
		300°F, 10,000 rpm, 5 lb	800 hrs +
		350°F, 10,000 rpm, 50 lbs	536 hrs
Low Temperature Torque	ASTM D-1478	@ -65°F, Starting	1,775 gm-cm
		running	445 gm-cm
Corrosion on Copper	ASTM D-4048	24 hrs @ 212°F	1a no Stain