



High Performance Synthetic Grease

ThixoSYN

Product Description

- High performance 100% synthetic grease with calcium sulfonate thickener
- Broad operating temperature range (-40°C to 250°C)¹
- Meets or exceeds MIL-PRF-24139 multipurpose water resistant grease specification
- Meets or exceeds the specifications of NLGI GC-LB classification
- Reduces friction caused by asperity (metal to metal) contact
- Outperforms traditional greases with its superior anti-wear and high load carrying capabilities
- Ideal for year round application including extreme winter conditions
- Outstanding shear stability, minimizing lubrication requirements
- Exceptional water wash resistance and rust and corrosion inhibition
- High extreme pressure lubricating film – up to 1.4 GPa (200,000 psi)

¹High & Low temperature performance is dependent upon application requirements

Handling Information

ThixoSYN can be handled using conventional grease handling and dispensing methods.

Safety Information

For more extensive information on the safe handling and the use of this product, see the Material Safety Data Sheet

Typical Characteristics

Base Oil Properties		
Property	Method	Result
Viscosity @ 40°C	ASTM D445	50 cSt
Viscosity @ 100°C	ASTM D445	8.4 cSt
Viscosity Index	ASTM D2270	144

Grease Properties		
Property	Method	Result
Appearance	---	Brown, Smooth, Buttery
NLGI Grade	ASTM D217	2
Worked Penetration (60 Strokes)	ASTM D217	280
Dropping Point	ASTM D2265	>300°C (>570°F)
Oil Separation %W	ASTM D1742	0.2% W
Timken OK Load	ASTM D2509	30kg (66 lbs)



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Typical Characteristics

Grease Properties		
Property	Method	Result
4 Ball EP - LWI - Weld Load	ASTM D2596	79.26 500 kg
4 Ball Wear	ASTM D2266	0.42 mm
Bearing Life	ASTM D3527	220 hours
Water Washout (79°C)	ASTM D1264	<0.1% loss
Wheel Bearing Leakage	ASTM D4290	4.00 g
Low Temperature Torque -40°C start / 1 hr running -20°C start / 1 hr running	ASTM D1478	0.785 Nm/0.113 Nm 0.177 Nm/0.019 Nm
Mobility @ -35°C, g/min	US Steel Method	9.0
Corrosion Prevention	ASTM D1743	Pass
Salt Fog Corrosion, 1 mil d.f.t., hours	ASTM B117	>300
Bomb Oxidation, psi drop @ 100 hours @ 500 hours @ 1,000 hours	ASTM D942	2.2 5.4 6.0
Mechanical Stability Worked 10,000 strokes, % change Worked 100,000 strokes, % change Worked 10,000 strokes, 50/50 water, %	ASTM D217	2.4 2.9 8.0
Elastomer Compatibility		
NBR-L 70 hrs @ 150°C % Swell Hardness Change, Durometer A	ASTM D4289	BUNA N 2.96 -1
CT Type 70 hrs @ 150°C % Swell Hardness Change, Durometer A	ASTM D4289	BUNA N 2.96 -1
Particle Count 15 to 74 micron > 75 micron	FTM-3005	0/cc 0/cc
Apparent Viscosity 0°C @ 200 sec ⁻¹	ASTM D1092	200 poise