PRODUCT INFORMATION SHEET

WYNN'S VARIPLEX MOLY GREASE

Product Number: 80319 20 x 450 g 80321 20 kg

WYNN'S VARIPLEX MOLY GREASE is a multi-purpose and broad temperature-range lubricating grease for many industrial and automotive applications.

Wynn's Variplex Moly Grease is a lithium complex soap thickened extreme pressure grease of NLGI Grade No. 2 consistency that contains molybdenum disulphide polymer tackifiers, and the unique Wynn's Friction Proofing.

Advantages

Wynn's Variplex Moly Grease is scientifically formulated to provide the following advantages:

- Outperforms normal NLGI Grade No. 2 consistency greases, particularly in extreme pressure, shock loaded and high wear applications, harsh environments and broad temperature ranges.
- Contains a lithium complex soap thickener that provides much higher temperature tolerance and stability than ordinary grease thickeners.
- Contains the package blend of unique extreme pressure additives together with Wynn's Friction Proofing, engineered to overcome metal to metal wear. Should the oil film in the grease and the molybdenum disulphide additive film be disrupted by an extreme shock load or lack of lubricant, then these additive compounds are activated and act as further protection against wear and possible equipment failure.

Benefits

Wynn's Variplex Moly Grease is formulated for extreme-pressure and wear protection, and to provide the following benefits:

- High fluid-film strength in bearing applications.
- Reduces industrial plant grease inventories and application equipment.
- Exceptional shear stability that extends lubrication intervals.

- Broad temperature range applications.
- Resists water washout in bearing and flat surface applications.
- Adherent, stays in place, and will not drip or throw-off.
- Resists breakdown as a result of mechanical action.
- Meets the requirements of NLGI Grade No. 2.
- Prevents rust and corrosion of metallic components under humid and wet conditions.
- Extends grease life by reducing oxidation.
- Separates opposing metal surfaces to reduce wear.
- Provides stability over a wide temperature range.
- Extends component life by preventing wear.
- Provides protection over a wide range of operating temperatures.
- Reduces operating temperatures under high load conditions.
- Provides high extreme-pressure properties

Applications

Wynn's Variplex Moly Grease meets the lubrication requirements of a wide variety of applications that call for an NLGI Grade No. 2 grease with molybdenum disulphide.

- Light/Medium Duty - Wheel bearings (including disc brakes), universal joints. Constant velocity joints in both cars and trucks (including fifth wheel/turntables).
- Medium/Heavy Duty - Bucket pins, rock hammers, bearings both slow moving hot and/or heavily loaded bearings and gear couplings - typical of the steel and paper industries - plus pins, pivots and bushes.

- Sealed for life bearings have assured long service life due to the exceptional oxidation, rust and corrosion resistance of Wynn's Variplex Moly Grease. With extended service, Wynn's Variplex Moly Grease maintains its original consistency. It will not thicken since it resists oxidation. It will not thin out because Wynn's Variplex Moly Grease is shear resistant.

- Wynn's Variplex Moly Grease is the prime recommendation for plain, ball and roller bearings, and other applications requiring grease lubrication; in all automotive, including truck, buses, agricultural, marine, industrial and construction equipment. First choice for electric motors. Excellent recommendation for ball joints which demand characteristics that will ensure minimum wear and minimum torque, and with complete protection against rust.

- Where water contamination or water wash-out influences cannot be avoided, even at elevated temperatures, effective lubrication is maintained because of the excellent resistance of Wynn's Variplex Moly Grease to water wash-out. In these situations Wynn's Variplex Moly Grease also gives protection against rusting and corrosion.

Wynn's Variplex Moly Grease is compatible with most lithium soap thickened greases, however for best results, the removal of the old grease prior to filling is recommended.

Apply Wynn's Variplex Moly Grease using commercially available grease dispensing equipment depending on the specific application.

Tests

Wynn's Variplex Moly Grease meets and exceeds the ASTM D 3428 Ball Joint Test by passing the Brine Sensitivity Test and Torque Stability Test.

Wynn's Variplex Moly Grease provides a Bearing No. 204 with a lubrication life of 125 hours at 10,000 rpm.

Typical Characteristics

PROPERTY	TEST METHOD	TYPICAL
NLGI Grade	-	No. 2
Colour	-	Dark Grey
Texture	-	Buttery
Thickener Type	-	Lithium Complex Soap
Penetration at 25° C (mm/10)	**ASTM D 217**	
Unworked		270
Worked, 60 Strokes		275
Worked, 100,000 Stokes (Change %)		+ 10
Dropping Point (°C)	**ASTM D 2265**	275
Roll Stability	**ASTM D 1831**	
Penetration (Change %)		+ 10
Leakage, Wheel Bearing	**ASTM D 1263**	
(65g Packed) at 163° C (g)		1.5
Water Washout at 80°C(% loss)	**ASTM D 1264**	3.5
Oil Separation, 24 hours	**ASTM D 1742**	
at 25°C (% mass)		2.0
Oxidation Stability	**ASTM D 3336**	
pressure drop at 100 hours (kPa)		15
pressure drop at 500 hours (kPa)		70
Rust Prevention (Rating)	**ASTM D 1743**	1,1,1
Timken OK Load (kg)	**ASTM D 2509**	25
4-Ball EP Test	**ASTM D 2596**	
Load Wear Index (kg)		68
Weld Point (kg)		380
4-Ball Wear Test (40 kg) 1 hour	**ASTM D 2266**	
1200 rpm @ 75°C, scar (mm)		0.40
Base Oil Viscosity	**ASTM D 445**	
at 40°C (cSt)		220
at 100°C (cSt)		18.8
Base Oil Viscosity Index	**ASTM D 567**	96
Base Oil Flash Point (°C)	**ASTM D 925**	260
Operating Range (°C)		-18 to 180
Copper Strip Corrosion	**ASTM D 130**	
3 hours @ 100°C		1b

Compatibility

The following table gives the compatibility of Wynn's Variplex Moly Grease (with its lithium complex soap thickener) with other greases.

Thickener	**Aluminium Complex**	**Barium Complex**	**Calcium Simple**	**Calcium Sulphonate Complex**	**Bentonite Clay**	**Lithium Simple**	**Lithium Complex**	**Polyurea**	**Sodium**
Aluminium complex	C	I	I	I	I	B	B	B	I
Barium complex	I	C	I	I	I	I	I	I	I
Calcium Simple	I	I	C	C	I	C	C	C	I
Calcium Sulphonate Complex	I	I	C	C	I	B	B	B	I
Bentonite Clay	I	I	I	I	C	I	I	I	I
Lithium Simple	B	I	C	B	I	C	C	B	B
Lithium Complex	B	I	C	B	I	C	C	B	B
Polyurea	B	I	C	B	I	B	B	C	I
Sodium	I	I	I	I	I	B	B	I	C

I: Incompatible.

C: Compatible.

B: Borderline, sample should be checked.*

* It is always good industry practice not to mix different brands of greases, and to clean or purge previous greased lubrication systems.