



PRODUCT INFORMATION SHEET

WYNN'S ULTRA SYNTHET HI-TEMP UNIVERSAL GREASE (CARTRIDGE)

Product Number: 58503 60 x 400 g

WYNN'S ULTRA SYNTHET HI-TEMP UNIVERSAL GREASE is a new generation lubricating grease developed by a new process of complexing modified overbased sulphonates. This new process gives Wynn's Ultra Synthet Hi-Temp Universal Grease exceptional mechanical stability, very high load carrying ability, excellent resistance to water, oxidation and corrosion and outstanding performance in high temperature applications.

Advantages

Wynn's Ultra Synthet Hi-Temp Universal Grease is a new generation lubricating grease which is process patented under U.S. Patent No. 4560489.

Wynn's Ultra Synthet Hi-Temp Universal Grease does not become fluid at temperatures approaching 310°C. At a constant elevated temperature of 260°C, its lubrication life is greater than other premium greases.

Wynn's Ultra Synthet Hi-Temp Universal grease does not freeze up at temperatures approaching - 50°C. It has a starting torque of less than 10,000 g-cm at -40°C.

Based on the low temperature torque test and lubricating life at high temperatures, Wynn's Ultra Synthet Hi-Temp Universal Grease has a normal operating temperature range from -40°C to 260°C. It also has the capability of operating for short periods up to 300°C.

The formulation of Wynn's Ultra Synthet Hi-Temp Universal Grease has excellent extreme pressure (E.P.) properties which provide a very high load carrying ability.

The corrosion resistance of Wynn's Ultra Synthet Hi-Temp Universal Grease is especially recommended for use in extreme acidic or alkaline environments.

The excellent adhesion of Wynn's Ultra Synthet Hi-Temp Universal Grease prevents breakdown and gives exceptional resistance to water washout.

Wynn's Ultra Synthet Hi-Temp Universal Grease shows no tendency to harden or change in consistency when heat soaked for extended periods.

Wynn's Ultra Synthet Hi-Temp Universal Grease has exceptional mechanical stability and retains its consistency in service.

Benefits

The outstanding formulation of Wynn's Ultra Synthet Hi-Temp Universal Grease provides the following benefits:

- High Temperature Performance
- Low Temperature Performance
- Wide Operating Temperature Range
- High Load Carrying Ability
- Exceptional Mechanical Stability
- Excellent Resistance to Water
- Oxidation and Corrosion Resistance
- No Age Hardening in Service

Applications

Wynn's Ultra Synthet Hi-Temp Universal Grease has automotive applications in all chassis points, wheel bearings, king pins and fifth wheels. It is particularly suitable for heavy duty diesel engine vehicles fitted with an electronic braking system (EBS) incorporating disc brake axles.

Wynn's Ultra Synthet Hi-Temp Universal Grease has industrial applications in anti-friction bearings, low and high speed journal bearings, oven conveyors, electric motor bearings, steel mill roller bearings, crusher bearings, construction and agricultural equipment.

Wynn's Ultra synthet Hi-Temp Universal Grease has marine applications due to its excellent water and corrosion resistance.

Wynn's Ultra Synthet Hi-Temp Universal Grease exhibits little or no weaknesses and it is the nearest thing to a true universal lubricant.

Typical Characteristics

PROPERTY	TEST METHOD	TYPICAL
NLGI Grade	-	No. 2
Colour	-	Ruby Red
Texture	-	Smooth/Buttery
Thickener Type	-	Calcium Sulphonate Complex
Penetration at 25°C (mm/10)	ASTM D 217	
Unworked		280
Worked, 60 Strokes		280
Worked, 10,000 Strokes		295
Worked, 10,000 Stokes (50% Water)		270
Dropping Point (°C)	ASTM D 2265	300
Leakage, Wheel Bearing (65g Packed) at 163°C (g)	ASTM D 1263	1.0
Water Washout at 80°C (% loss)	ASTM D 1264	0.4
Oil Separation (% mass)	ASTM D 1742	0.3
Rust Prevention (Rating)	ASTM D 1743	1,1,1
Timken OK Load (kg)	ASTM D 2509	30
4-Ball EP Test	ASTM D 2596	
Load Wear Index (kg)		72
Weld Point (kg)		500
4 – Ball Wear Test, scar (mm)	ASTM D 2266	0.40
Wheel Bearing Life (hours)	ASTM D 3527	120
Fretting Wear Protection (mg)	ASTM D 4170	3.4
Base Oil Viscosity	ASTM D 445	
at 40°C (cSt)		118
at 100°C (cSt)		12.5
Base Oil Viscosity Index	ASTM D 567	95
Base Oil Flash Point (°C)	ASTM D 92	232
Operating Range (°C)		-40 to 260

Compatibility

The following table gives the compatibility of Wynn's Ultra Synthet Hi-Temp Universal Grease (with its calcium overbased sulphonate complex 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.