



# STARPLEX<sup>®</sup> EP M3 STARPLEX<sup>®</sup> EP 00, 0, 1, 2 (formerly Delo<sup>®</sup> Grease EP & Delo<sup>®</sup> Starplex EP)

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## PRODUCT DESCRIPTION

Starplex<sup>®</sup> EP is a comprehensive line of greases that are available with or without molybdenum disulfide. These greases are technically advanced, extreme pressure greases for a wide variety of on-road applications.

## CUSTOMER BENEFITS

Starplex EP greases deliver value through:

- **Extreme pressure high load carrying capacity** - Protection against shock loading, thus promoting long bearing life
- **Excellent corrosion and wear protection** - Even in wet conditions
- **Excellent water resistance** - Good resistance to wash out of bearings
- **Excellent high temperature stability** - Offers lasting bearing protection
- **Outstanding low temperature pumpability** - Easy handling in the container and grease-dispensing equipment

## FEATURES

Starplex EP greases are extreme pressure greases for a wide variety of on-highway and light duty off-road applications.



They are formulated with highly refined base stocks, a lithium complex thickener, rust and oxidation inhibitors, and extreme pressure additives.

They are engineered to minimize friction and wear with a thick, velvety coating for excellent load carrying protection.

Starplex EP greases are specially formulated for extreme pressure wheel bearing and chassis applications including the steering drag links, king pins, transmission cross shaft spring pins, shackle pins, brake cam shafts, and fifth wheel faceplates and pivots operating under high and low temperature conditions.

The high viscosity index base oil makes these products perfect for the centralized lubrication systems found on today's mobile equipment in wide temperature ranges.

Starplex EP M3 features 3% moly, which is sought after by many OEMs in off-road applications. They feature better corrosion resistance, wear control, and shock loading than our basic Starplex EP products.

## APPLICATIONS

Starplex EP greases are designed for extreme duty in a wide variety of on-highway and light duty off-road vehicle and equipment applications. Suitable for applications calling for Volvo 97720 (NLGI Grade 2).

**On-highway heavy duty trucks** — These lubricants are perfect for a wide variety of Class 8 trucks in most chassis and wheel bearing applications ranging from automatic centralized greasing systems to wheel bearings operating near the high temperatures of disc brakes. This product is for most applications, from owner/operators to fleets (especially those considering extended service intervals).

**Light Duty Off-Road vehicles** — Whether the application is in logging, agriculture or utilities, these greases will perform. Use them in tractors, cherry

Product(s) manufactured in the USA and Colombia.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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## Starplex® EP M3

### Starplex® EP — Continued

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pickers or any of a number of light duty off-road vehicles. For heavy-duty construction and mining applications, please refer to the Chevron Starplex® HD Grease product data sheet.

**Medium- and light-duty trucks and buses** — As with their heavy-duty counterparts, the Class 7 and Class 6 vehicles and buses require an extreme duty grease. Starplex EP greases will provide that performance.

**Automobiles** — Starplex EP greases are exceptional lubricants for high temperature wheel bearings and other high performance automotive applications.

**Heavy Duty On/Off Highway Road Construction and Maintenance Vehicles** - These products are well suited for greasing on/off road heavy duty. Starplex EP greases are an excellent choice for king pins, bushing and bucket pins, 5th wheels and other severe duty applications found on these types of vehicles. They are also ideally suited for on highway heavy duty applications as well as a variety of mix use equipment. Starplex EP greases meet the requirements of the Mack MG-C grease specification. They also meet Caterpillar recommendations for greases containing 3% molybdenum disulfide.

Starplex EP greases are NLGI GC-LB certified (NLGI 1 and 2).



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## TYPICAL TEST DATA

NLGI Grade	Test Method	Starplex EP 1 M3	Starplex EP 2 M3
Product Number		254649	254650
SDS/MSDS Number USA		58648	58309
Operating Temp, °C(°F) Minimum Maximum		-40(-40) 177(350)	-40(-40) 177(350)
Penetration, at 25°C(77°F) Worked (60 Strokes)	ASTM D217	325	280
Dropping Point, °C(°F)	ASTM D2265	245(471)	255(491)
Four Ball Weld Point, kg Load Wear Index, kg	ASTM D2596	400 72	400 72
Four Ball Wear Scar, mm	ASTM 2266	0.43	0.43
Timken OK Load, lb	ASTM D 2509	50	50
Water Spray-off, wt %	ASTM D4049	30	20
Lincoln Ventmeter, psig at 30 s, at 75°F 30°F 0°F	K95400	200 450 1250	250 700 1400
Copper Corrosion	ASTM D4048	1a	1a
Bearing Rust, 5% Synthetic Sea Water	ASTM D1743	Pass	Pass
Thickener Type		Lithium Complex	Lithium Complex
Molybdenum Disulfide Content, %		3	3
ISO Viscosity Grade Base Oil Equivalent		220	220
Base Oil Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	220 19.0	220 19.0
Base Oil Viscosity Index	ASTM D2270	97	97
Flash Point, °C(°F)	ASTM D92	274(525)	274(525)
Pour Point, °C(°F)	ASTM D97	-12(10)	-12(10)
Texture		Tacky	Tacky
Color		Grey/Black	Grey/Black

**TYPICAL TEST DATA**

NLGI Grade	Test Method	Starplex EP 00	Starplex EP 0	Starplex EP 1	Starplex EP 2
Product Number		235212	235211	259119	259118
SDS/MSDS Number					
USA		6818	6818	44614	44614
Canada		6818CAN	6818CAN	44615	44615
Mexico		6818MEX	6818MEX	44616	44616
Colombia		-	-	-	33449
Operating Temp, °C(°F)					
Minimum <sup>a</sup>		-40(-40)	-40(-40)	-40(-40)	-40(-40)
Maximum <sup>b</sup>		132(270)	132(270)	177(350)	177(350)
Penetration, at 25°C(77°F)	ASTM D217				
Unworked		-	-	310	267
Worked (60 Strokes)		415	370	325	280
Dropping Point, °C(°F)	ASTM D2265	n/a	235(455)	245(471)	255(491)
Four Ball	ASTM D2596				
Weld Point, kg		315	315	315	315
Load Wear Index, kg		50	50	50	50
Four Ball Wear Scar, mm	ASTM 2266	0.45	0.45	0.45	0.45
Timken OK Load, lb	ASTM D 2509	50	50	50	50
Water Washout, wt %	ASTM D1264	n/a	15	10	5
Lincoln Ventmeter, psig at 30 s, at 75°F	K95400	50	100	200	250
30°F		50	150	450	700
0°F		100	450	1250	1400
Copper Corrosion	ASTM D4048	1b	1b	1b	1b
Bearing Rust, 5% Synthetic Sea Water	ASTM D1743	Pass	Pass	Pass	Pass
Thickener Type		Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
ISO Viscosity Grade Base Oil Equivalent		220	220	220	220
Base Oil Viscosity, Kinematic cSt at 40°C	ASTM D445	220	220	220	220
cSt at 100°C		19.0	19.0	19.0	19.0
Base Oil Viscosity Index	ASTM D2270	97	97	97	97
Flash Point, °C(°F)	ASTM D92	274(525)	274(525)	274(525)	274(525)
Pour Point, °C(°F)	ASTM D97	-	-	-12(10)	-12(10)
Texture		Tacky	Tacky	Tacky	Tacky
Color		Red	Red	Red	Red

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

- a Minimum operating temperature is the lowest temperature at which a grease, already in place, could be expected to provide lubrication. Most greases cannot be pumped at these minimum temperatures.
- b Maximum operating temperature is the highest temperature at which the grease could be used with frequent (daily) relubrication.