Starplex EP (Formerly Delo® Starplex EP)

High Performance Long Life Grease

Product description

Starplex EP is a premium, multipurpose EP automotive wheel bearing and chassis grease containing an ISO 220 mineral base oil, a lithium complex thickener, EP additives, rust and oxidation inhibitors and tackiness additives.

Customer benefits and product features

Customer benefits

- **Saves maintenance costs**

  Effective EP additive offers protection against bearing wear under severe conditions and shock loading. The effective rust and corrosion inhibitors help protect metal surfaces, even in conditions of severe water exposure.

- **Minimizes downtime**

  High dropping point helps minimize leakage from bearings at elevated temperatures and excellent oxidation resistance contributes to long grease life. Natural water resistance of the lithium complex thickener, combined with the additional tackiness additive, helps prevent water washout.

- **Minimizes inventory costs**

  Multipurpose capability allows use in a wide range of automotive and industrial applications, reducing the number of different greases required and eliminating product misapplication.

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Applications

- Automotive wheel bearings
- Chassis lubrication
- Highway and off-highway applications
- Construction equipment
- Agricultural tractors
- Heavy-duty transport
- General industrial greasing

Usable temperature range in continuous service:

- -25 to 130°C (Starplex EP 2)
- -20 to 130°C (Starplex EP 3)

Maximum temperature for short term exposure is 220°C.

Product approvals, performance and recommendations

Performance standards

- NLGI Service Category GC-LB
- Volvo Corporate standard STD 1277.2, lubricating grease 97720

Service considerations

Although Starplex EP has a very high dropping point, which enables it to provide effective lubrication at temperatures well beyond those possible for conventional lithium soap greases, extended service at such elevated temperatures requires frequent relubrication to prevent oxidative degradation of the mineral base oil occurring.

Not recommended for constant-velocity joints on front wheel drive vehicles.

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Typical test data

STARPLEX EP	TEST METHOD	RESULTS	
NLGI Grade		**EP 2**	**EP 3**
Product Code		**510882**	**510807**
Operating Temperature, °C (°F)			
Minimum[a]		-25	-20
Maximum[b]		130	130
ISO Viscosity Grade Base Oil Equivalent		220	220
Base Oil Viscosity, Kinematic			
cSt at 40°C	ASTM D445	220	220
cSt at 100°C	ASTM D445	21	21
Base Oil Viscosity Index	ASTM D2770	113	113
Thickener Type, m%		Lithium Complex, 11	Lithium Complex, 14
Penetration, at 25°C Worked (60 strokes)	ASTM D217	280	235
Dropping Point, °C	ASTM D2265	230+	230+
Color		Red	Red
Four Ball, weld point kg	ASTM D2596	315	315
Timken Ok Load, kg	ASTM D2509	20	20
Corrosive Preventive Properties	ASTM D1743	Pass	Pass

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.
Minor variations in product typical test data are to be expected in normal manufacturing.

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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