



STARPLEX[®] SYN XD 1.5 (formerly Ulti-Plex[®] HV Synthetic Grease EP)

PRODUCT DESCRIPTION

Starplex[®] Syn XD is a high performance grease specially formulated for extreme pressure bearing applications operating under high and low temperature conditions and for those difficult applications requiring extended lubrication intervals.

CUSTOMER BENEFITS

Starplex Syn XD delivers value through:

- **High temperature stability** up to 232°C (450°F). High temperature stability indicates the highest temperature at which the grease could be used with frequent (daily) re-lubrication.
- **Low temperature lubrication** down to -40°C (-40°F). Low temperature lubrication is the lowest temperature at which a grease already in place could be expected to provide lubrication but may not maintain pumpability.
- **Excellent corrosion and wear protection.**
- **Excellent water resistance.**
- **Optimal relubrication intervals.**

FEATURES

Starplex Syn XD is a high performance grease specially formulated for extreme pressure bearing applications operating under high and low temperature conditions and for those difficult applications requiring extended lubrication intervals.



It is manufactured using highly refined high viscosity synthetic base oil, a lithium complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. It is light tan in color and smooth and buttery in texture.

Starplex Syn XD provides an alternative for high temperature applications. The uniform molecular structure of the synthetic base oil minimizes friction between moving parts and boosts lubrication performance over a wide temperature range.

The high viscosity index of the synthetic base oil allows bearings lubricated with Starplex Syn XD to operate at temperatures as low as -40°C (-40°F).

Product(s) manufactured in the USA.

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

10 March 2023
GR-135

© 2001-2023 Chevron U.S.A. Inc. All rights reserved.

Chevron, the Chevron Hallmark and Ulti-Plex are trademarks owned by Chevron Intellectual Property LLC. All other trademarks are property of their respective owners.

APPLICATIONS

Starplex® Syn XD is recommended for use in applications with operating temperatures up to 232°C (450°F) with a dropping point of approximately 280°C (536°F).

Starplex Syn XD is ideal for a wide variety of applications across several industries, including:

- **Paper and Forest Products** — Starplex Syn XD is designed for heavily loaded, low speed bearings which may be found in sludge presses and washers.
- **Mining/Mineral Processing** — Starplex Syn XD is particularly recommended for:
 - mining operations that involve extreme pressure applications requiring low temperature pumpability. Applications include: pins and bushings on buckets and loaders, shaker screens, crushers, and conveyors
 - low temperature mining applications
 - automatic lubricating systems in onboard shovels, trucks, and other mobile equipment
 - kiln and cooling bed bearings
- **Off-Road Construction** — Starplex Syn XD is ideally suited for lubrication systems that involve pumping grease through long supply lines at low temperatures. Starplex Syn XD is formulated to minimize water washout in off-road environments.
- **Marine** — The rust and corrosion inhibition properties of Starplex Syn XD make it ideal for use in marine equipment exposed to severe corrosion environments. Examples include deck equipment, offshore drilling equipment, grease lubricated shaft bearings, cranes, and windlass winches.

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.

TYPICAL TEST DATA

NLGI Grade	Test Method	1.5
Product Number		250500
SDS Number		8268
Operating Temperature, °C(°F) Minimum ^a Maximum ^b		-40(-40) 232(450)
Penetration, at 25°C(77°F) Unworked Worked	ASTM D217	295 315
Dropping Point, °C(°F)	ASTM D2265	280(536)
Timken OK Load, lb	ASTM D2509	50
Four Ball Weld Point, kg Load Wear Index, kg	ASTM D2596	500 95
Four Ball Wear Scar, mm	ASTM D2266	0.5
Bearing Water Washout, wt % loss at 175°F	ASTM D1264	7
Lincoln Ventmeter, psig at 30 s, at 24°C (75°F) -1°C (30°F) -18°C (0°F)	K95400	300 550 960
Copper Corrosion	ASTM D4048	1b
Thickener, % Type		13.0 Lithium Complex
Viscosity, Kinematic (Base Fluid) cSt at 40°C cSt at 100°C	ASTM D445	1200 100
Viscosity Index (Base Fluid)	ASTM D2270	173
Flash Point, °C(°F) (Base Fluid)	ASTM D92	302(576)
Texture		Smooth, Buttery
Color		Light Tan

- 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.