



# Starplex HD 1

## High-performance heavy-duty lithium complex grease

(previously known as Starplex HT 1)

### Product description

Starplex HD 1 is a high-performance heavy-duty lithium complex grease designed to offer mechanical stability and adhesion in high load situations where vibration with elevated temperatures is present and promotes protection in a range of wet or corrosive environments, and across a wide temperature range up to 220°C.

Starplex HD 1 combines mineral oil and polymer, with an additive system based on bismuth technology and designed to help provide robust oxidation and corrosion protection, with high performance bearing wear resistance.

### Customer benefits

- Formulated to promote heavy and shock load protection in a range of applications.
- Designed to offer good pumpability in centralised lubrication systems.
- High adhesion properties help provide water washout resistance.
- Good thermal stability offers high temperature equipment protection up to 220°C.
- Advanced bismuth additive technology helps provide effective oxidation stability.

### Product highlights

- **Formulated to promote heavy and shock load protection.**
- **Designed to offer good centralised lubrication pumpability.**
- **Provides good water washout resistance.**
- **Offers good thermal stability up to 220°C.**
- **Engineered for effective oxidation stability.**

#### Selected specification standards include:

DIN

ISO

### Applications

Starplex HD 1 offers protection in applications at elevated temperatures such as heavily loaded bearings and in wet and corrosive environments.

Other recommended heavy-duty applications include:

- Construction, agricultural and mining
- Pellet machines
- General industrial applications
- Paper and pulp equipment
- Marine applications

### Approvals, performance and suitable for use

#### Performance

	DIN 51 502	ISO 6743-09	Operating temperature
<b>Starplex HD 1</b>	KPHC1.5N-40	ISO-L-XC(F)DIB1.5	-40°C up to 150°C with centralized system, for a short period up to 220°C

### Product maintenance and handling

Maintaining a clean work environment is critical when equipment greasing is performed. Grease fittings should be wiped clean prior to grease injection to prevent contaminants from entering the equipment. Bearing housings should be maintained one-third to one-half full of grease. Over-greasing should be avoided as excessive heat build-up can result. Periodic relubrication via grease gun or centralized system should be supplemented by complete cleaning and packing with fresh grease on an appropriate schedule.

Avoid any spillage of used and unused product to the environment.

Product residue and package/container should be disposed of in dedicated collection points.

Typical test data		
Test	Test Methods	Results
<b>Typical Shelf Life: 36 months from date of filling indicated on the product label</b>		
Color	Visual	Orange
Appearance	Visual	Smooth
NLGI grade	DIN 51 818	1.5
Thickener Type		Lithium Complex
Base Oil Viscosity, mm <sup>2</sup> /s (base oil mix + polymers)	Calculated	530
Penetration worked, 60x, mm/10	ISO 2137	303
Dropping Point	Mettler	265,5
Copper Corrosion (24 h. / 100°C)	DIN 51811	1 B
Four Ball Wear Greases DIN	DIN 51350/1.5	0,530
Four Ball EP Greases DIN	DIN 51350/1.4	3600
Water Resistance Static Greases 90°C / 3 hours	DIN 51807/1	1
Flow Pressure -30°C	DIN 51805	1265
Water Resistance Dynamic 79°C	ASTM D 1264	3,74

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

**Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.**

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.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see <http://europe.chevronlubricants.com>.

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