



marine products

# Starplex® HM 3

formerly Starplex EP 3



## Description

Starplex® HM 3 is a high performance long-service multipurpose lead-free grease, formulated for long-term service in roller-and ball-bearing applications, operating at high temperatures and under high loads.

With a wide operating temperature range, Starplex HM 3 is formulated with mineral base stocks with temperature resistant lithium complex soap thickener, combined with EP additives and wear, corrosion and oxidation inhibitors. Starplex HM 3 offers good mechanical stability and is suited to bearing lubrication under conditions where strong vibrations are present.

## Typical Characteristics

|  |                 |
|--|-----------------|
| <b>NLGI Grade</b>                              | <b>3</b>        |
| <b>MPID</b>                                    | <b>219597</b>   |
| Colour   | Brown           |
| Texture  | Smooth          |
| Soap type                                      | Lithium Complex |
| Penetration worked, mm/10                      | 220–250         |
| Dropping Point, °C                             | >250            |
| Base oil type                                  | Mineral         |
| Base oil viscosity at 40°C, mm <sup>2</sup> /s | 115.0           |
| Copper corrosion, 24h/100°C                    | 1               |
| Emcor distilled water                          | 0/0             |
| Four ball weld load, N                         | 2800            |
| Four Ball Wear, mm                             | 0.3             |
| Water resistance static                        | 1–90            |

## Recommended Applications

Starplex HM 3 grease is used for lubricating machines and components which are subjected to high thermal and mechanical loads over a long service life. It has been tested in applications involving extreme pressures, vibrations and impact stress, wet conditions, dust, and in the presence of plastic seals. This product largely covers the applications of conventional lithium, sodium and calcium greases, as well as of aluminum and calcium complex greases.

Starplex HM 3 can be a substitute for various grease types, therefore reducing the number of greases that must be kept in storage. Operating temperature: –20°C up to 150°C with frequent re-lubrication up to 200°C for a short period of time.

## Starplex HM 3 meets the requirements of:

- ✓ **DIN 51825** KP 3 P-20
- ✓ **ISO 6743-9** ISO-L-XBDEB3



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## Starplex HM 3 is recommended for use in:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Automobile wheel bearings and generators | <input checked="" type="checkbox"/> Rollers in drying plants          |
| <input checked="" type="checkbox"/> Clutch thrust bearings                   | <input checked="" type="checkbox"/> Paper machines                    |
| <input checked="" type="checkbox"/> Brake cylinders                          | <input checked="" type="checkbox"/> Washing and dish washing machines |
| <input checked="" type="checkbox"/> Fan bearings                             | <input checked="" type="checkbox"/> Special do-it-yourself machines   |
| <input checked="" type="checkbox"/> Electric motors                          | <input checked="" type="checkbox"/> Household appliances              |
| <input checked="" type="checkbox"/> Kiln cars                                |   |

## Performance Benefits

**1. Wide Temperature Range Application**

Formulated to promote long-term lubrication performance in wide temperature conditions and effective thermal performance which contributes to advanced protection under high temperature conditions.

**2. Long Bearing Service Life**

Mechanical stability helps maintain lubrication performance in bearings which are subject to strong vibrations. High pressure load capacity promotes long-term wear resistance.

**3. Protects Metal Surfaces**

Assists long-term corrosion protection where moisture, water or aggressive atmospheres are present.

**4. Improves Equipment Life**

Good sealing characteristics help protect lubrication points from dust, dirt and water. Tough, adhesive oil film performance aids long-term component protection.

## Environment, Health and Safety

Information is available on this product in the Safety Data Sheet (SDS) 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 an SDS for this product visit [chevronmarineproducts.com](http://chevronmarineproducts.com).



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