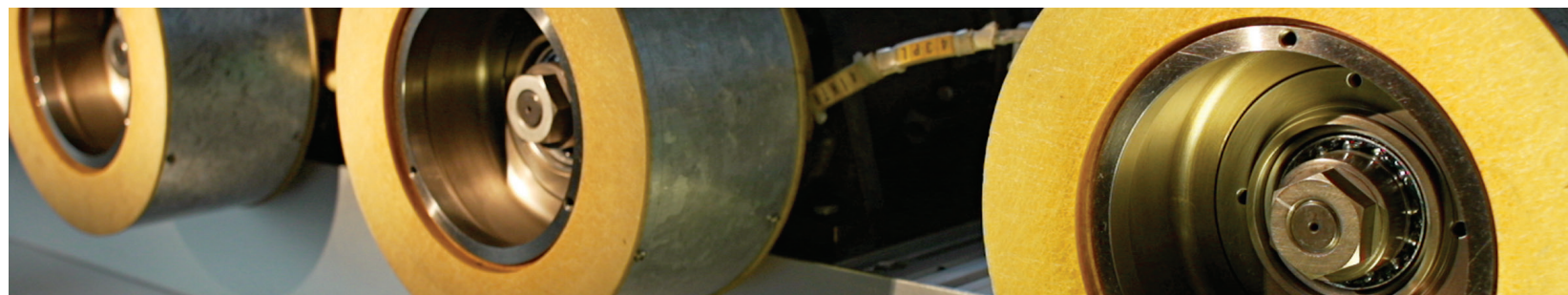


# Mobil SHC Polyrex™ Series

High-temperature synthetic polyurea greases



Energy lives here™

## Key benefits



NSF H1 registered and Kosher/Parve approved



Superb anti-wear properties under heavy loads

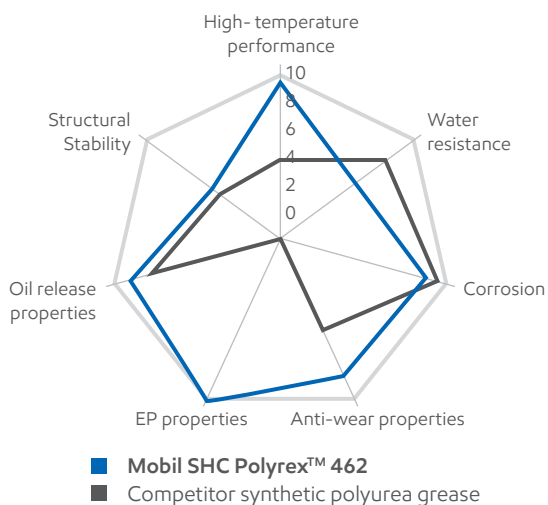


Excellent high temperature performance

Mobil SHC Polyrex Series grease can be applied up to

# 170°C

## Balanced Performance



Mobil SHC Polyrex™ Series are advanced-technology greases specifically designed:

- For use in food and beverage packaging and processing applications
- To provide protection under harsh conditions and allow for extended re-lubrication or maintenance intervals
- To help reduce bearing wear under heavy loads
- To help reduce lubricant consumption and increase bearing protection where water wash downs are common

Mobil SHC Polyrex brings the performance to another level through the addition of a unique combination of synthetic oils, polymer enhancement and a balanced additive package that is geared to deliver solutions to tough lubrication problems.

## Mobil SHC Polyrex™ 462 helped a customer increase the service intervals on the refiners by up to 25%\*

Andritz refiners | Pulp&Paper mill | Norway

### Situation

Problems with heavy oxidation in “guidance and sleeves” occurred inside Twin 60 refiners from Andritz. There were also problems with the blocking of grease distribution lines due to the high temperatures inside the refiner (temperatures up to 150 °C).

### Recommendation

After thorough investigations and evaluation by ExxonMobil, the mill decided to follow advice and start using **Mobil SHC™ Polyrex 462 grease**.

**Mobil SHC Polyrex 462** is an NLGI 2 Grade grease recommended for heavily loaded plain and anti-friction bearings. It is also recommended for bearings where extreme temperatures are a concern. It also offers excellent water resistance and corrosion protection.

### Benefit

Service intervals on the refiners increased by up to 25% compared to competitor’s mineral grease. The grease is now flowing smoothly through the grease distribution system, and not causing any plugging. Color of grease coming out of evacuation pipes indicates very low oxidation or degradation of the grease.

\* This proof of performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

# Mobil SHC Polyrex™ Series

## Typical properties\*

Mobil SHC Polyrex Series	005	221	222	462
NLGI Grade	00	1	2	2
Thickener Type	Polyurea	Polyurea	Polyurea	Polyurea
Base Oil Viscosity, ASTM D445: 40°C, mm <sup>2</sup> /s	220	220	220	460
100°C, mm <sup>2</sup> /s	30	30	30	40
Color	White	White	White	White
Penetration, Worked, 25°C, ASTM D217, 0.1 mm	415	325	280	280
Dropping Point, ASTM D2265, °C	260	270	260	270
Water Washout, 79°C, ASTM D1264, % Weight Loss	37	7	7	5
Water Spray-Off, ASTM D4049, % Weight Loss	-	-	28	30
4-Ball Wear, ASTM D2266, Scar, mm	0.45	0.45	0.45	0.45
4-Ball Weld Point, ASTM D2596, kg	400	400	400	400
Bearing Corrosion, ASTM D1743, Rating	Pass	Pass	Pass	Pass
EMCOR Rust Test, Distilled Water, ASTM D6138, Rating	0, 0	0, 0	0, 0	0, 0
FE9 Grease Life, 160°C, DIN 51821 A/1500/6000-160, F50, Hours	-	200	>350	>350
Pumpability, -18°C, USS DM-43, g/minute	40	30	18	7
DIN 51825: 2004-06	-	KPFHC1P-30	KPFHC2P-30	KPFHC2P-20
DIN 51826: 2005-01	GPFHC00K-30	-	-	-
NSF H1 Registration No.	141947	145674	141946	139558

## Outstanding performance in general industry and food processing applications

Mobil SHC Polyrex™ Series greases have demonstrated excellent load-carrying capabilities, and rust and corrosion protection, without compromising long grease life in severe applications such as steam-saturated atmospheres with continuous operating high-temperatures.

Mobil SHC Polyrex Series greases can be applied up to 160°C–170°C so ideal for lubrication of equipment in the food processing, chemicals, plastics, and steel industries, such as kilns, ovens, and steam-heated machinery.

## Approvals for use in the food industry

Mobil SHC Polyrex Series greases are NSF H1 registered and also Kosher/Parve approved for use in the food, beverage, pharmaceutical, and packaging industries, and can help you support the transition to food-safe production processing through a HACCP (Hazard Analysis Critical Control Point) lubrication plan. Mobil SHC Polyrex Greases are manufactured at ISO 22000 certified facilities that also meet the requirements of ISO 21469 helping to ensure that the highest levels of product integrity are maintained. It also complies with the Title 21 CFR 178.3570 by the Food and Drug Administration for lubricants with incidental food contact.

### Industrial Lubricants



### Advancing Productivity™

### Safety

Long grease life and drain intervals, as well as enhanced equipment life and reliability, can help reduce maintenance and the safety risks associated with employee–equipment interaction.

### Environmental Care\*\*

Long product life helps you reduce waste oil generation and maintenance-related waste.

### Productivity

Reduced maintenance downtime for relubrication and equipment repair can help enhance operational productivity.

\*Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [global.mobil.com](http://global.mobil.com). ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or mobil.com/industrial. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

\*\* Visit [global.mobil.com](http://global.mobil.com) to learn how certain Mobil™-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

#### Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contact office or via the Internet. This product should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment.