



# ULTRALINE HTP-221

## High-temperature Synthetic Grease

### Description

**ULTRALINE HTP-221** is a premium quality synthetic high temperature grease for plain and anti-friction bearing, designed to withstand high temperatures over extended periods without leaving dry residues associated with conventional types of thickeners used in high temperature greases. The addition of Extreme Pressure additives as well as PTFE reduce friction and self-generating temperatures. PTFE is especially effective at high pressure, which provide superior load-carrying and antiwear performance.

**ULTRALINE HTP-221** also provides excellent lubrication at sub-zero and ambient temperatures making this lubricant extremely versatile in its applications. **ULTRALINE HTP-221** is well suited for most industrial applications, and especially for with temperature bearings, brushings which used in steel mill and construction equipment. A dropping point in excess of 250°C ensures superior retention in these high temperature applications.

**ULTRALINE HTP-221** provides exceptional performance over a wide operating temperature range of -50°C to 170°C (up to 220°C in intermittent-use situations, with more frequent lubrication), making it suitable for both hot and cold applications.

### Outstanding Features

- Excellent high temperature resistance extending lubrication intervals
- Considerably reduces carbon residues associated with other high temperature greases
- Extreme Pressure additives and PTFE to extend component life
- Excellent corrosion resistance protects components from humid environments
- Outstanding protection against extreme pressures, shock loads and continuous vibration
- Excellent film strength and durability
- Suitable for very high rotational speeds (DN value 750000)

### Applications:

**ULTRALINE HTP-221** serves for the long-term lubrication of thermally and mechanically highly loaded plain and roller bearings for:

- Dryer bearings in the textile industry
- Drying plant conveyor and material handling plants
- Film-stretching machines
- High temperature bearings for asphalt production facilities etc.

## Directions for Use

**ULTRALINE HTP-221** can be applied manually or via suitable lubrication systems. As with all greases used for the first time, check compatibility with the grease applied previously and if necessary purge bearings prior to application. Likewise, as a general rule, take care not to over-lubricate and apply the quantity of grease recommended by the bearing manufacturer.

For best results, clean lubricant point carefully, remove the corrosion protection ahead of the initial filling. Fill the bearings in a way that all the functional surfaces for sure get the grease. Slow moving bearings (DN-value < 50.000) should be filled completely, normal moving bearings should be filled to 1/3 of the free inner housing space. Observe the instructions of the bearing or machine manufacturer. Relubrication with a grease gun on to the grease nipples or with an automatic lubrication system. Relubrication intervals and amount to be defined according to the service conditions. If the removal of the old grease is not possible the amount of grease has to be limited to avoid excess lubrication of the bearing. At longer relubrication intervals a complete exchange of the old grease is recommended. Only mix with appropriate lubricants.

## Characteristics (Typical Figures)

Product Name	<b>HTP-221</b>
NLGI classification	2
Appearance	RED
Thickener	Lithium Complex
Base oil	A Blend Synthetic Oils
Solid lubricant	PTFE
Dropping point (ASTM D2265)	>250 °C
Dynamic corrosion resistance (EMCOR) (IP 220)	0:0
Shell 4 Ball (IP 239) (ASTM D2596):	
Weld Load	355kgs
Load Wear Index	68kg
Corrosion (ASTM D130)	1b
dN factor	750,000
Operating temperature range	-50°C to 170°C short periods 220°C

TYPICAL VALUES DO NOT CONSTITUTE AS SPECIFICATIONS.  
DUE TO CONTINUAL PRODUCT RESEARCH AND DEVELOPMENT,  
THE INFORMATION CONTAINED HEREIN IS SUBJECTED TO CHANGE WITHOUT NOTIFICATION.