

Lubrication solutions for mill bearings exposed to water or coolant

Equipment bearings in tube manufacturing face heavy exposure to water-based coolants which can wash out the grease. Grease consumption is often increased to flush the bearings – wasting grease and contaminating coolant systems. Bearing failures with resultant down-time still typically persists. Our line of heavy duty polyurea greases have maximum water washout resistance in these areas. Suitable for all types of production, such as welded, seamless, and pilger mills, and materials like steel and copper.

As a global leader in lubricants for the steel market, BECHEM has developed this line of specialized lubricants for the tube industry utilizing polyurea (polymer) grease technology. Proven by the worlds largest steel manufacturers this technology provides these key advantages to tube manufacturers:

- Exceptional water resistance
- Reduced grease consumption
- High load capability
- Corrosion resistance
- High temperature capability
- Compatibility with coolants and water treatment facilities in water washout tests

BECHEM offers ancillary products such as pastes and sprays, heavy duty greases for secondary processes and furnaces and lubrication solutions for metalworking processes to significantly reduce equipment costs associated with down-time, labor, and repairs. BECHEM's experienced engineering and sales team is available for on-site assessment of your productions processes.



PRODUCT	Base oil		NLGI-grade	Kinematic viscosity (mm ² /s) at 40 °C/100 °C	Service temperature range [°C]	Applications	Description
	Base oil	Thickener					
Berutox M 21 EPK 	Mineral oil	Polyurea	1-2	490 32	-20 +160	Heavy duty rolling mills and upper weld mill bearings	Multi-purpose grease for plastic/metal slide pairings, high corrosion and wear protection, good adhesion, resistant to oxidation, water, and steam, water repellent, EP-properties
Berutox M 21 Plus 	Mineral oil	Polyurea	1	500 34	-10 +160	Heavy duty rolling mills and pilger mills	Long-term lubricating grease, outstanding consistency-temperature-behavior, excellent dry running properties, excellent corrosion and wear protection, EP-properties
Berutox M 21 HT 	Mineral oil	Polyurea	1-2	490 32	-20 +180	Bearings exposed to extreme temperatures, such as upper weld mill bearings	Long-term lubricating grease, outstanding consistency-temperature behavior even at overheating, excellent resistance to water, excellent corrosion and wear protection, EP-properties
Berutox M 21 KN 	Mineral oil	Polyurea	1-2	490 32	-20 +180	Medium duty forming mills and seamless mills	Long-term lubricating grease, outstanding consistency-temperature-behavior, excellent resistance to water, excellent corrosion and wear protection, EP-properties
Berutox FE 18 EP 	Mineral oil	Polyurea	2	100 11	-20 +140	Mills that are centrally lubricated and seamless mills	High-performance grease to lubricate high-speed roller and plain bearings, excellent water resistance, excellent corrosion and wear protection, excellent pumpability
BECHEM High-Lub FA 67-400 KS 	Mineral oil	Lithium-Calcium-Soap	2	400 30	-20 +140	Heavy duty bearings with moderate exposure to water and elevated temperatures	Long-term lubricating grease, good sealing qualities, excellent water resistance, outstanding corrosion protection, good pumpability in central lubrication systems, EP-properties
Beruplex CS 2 EP 	Mineral oil	Calcium complex soap	2	150 13	-25 +140	Plain and roller bearings, spindles, and joints with moderate exposure to water and elevated temperatures. Central lubrication systems	EP-grease, wide application temperature range, excellent water resistance, excellent corrosion protection, excellent pumpability in central lubrication systems, high load-carrying capacity
BECHEM High-Lub LFB 2000 	Mineral oil	Lithium-Calcium-Soap	2	180 15	-20 +140	Bearings and threaded spindles in dirty environments	EP-grease, wide application temperature range, excellent pumpability and water resistance, excellent corrosion and wear protection, contains light-colored solid lubricants, emergency running properties
Berusynth CU 250 	Ester	-	-	250 24	-30 +250	Oven and machine chains exposed to high temperatures or moisture	High-temperature chain oil, wide application temperature range, excellent wetting and creeping properties, hot and cold water resistant, good corrosion protection, no formation of critical residues, H2-registered, adjusted to Berusynth CC 100
BECHEM High-Lub FA 50 MO 	Mineral oil	Lithium-Calcium-Soap	2	1200 47	-20 +120	Slow moving couplers under heavy loads	Long-term lubricating grease for high to very high loads, excellent water resistance, excellent corrosion protection, even if there is risk of standstill corrosion, highly viscous mineral oil, contains solid lubricants and EP-additives

All indications and values correspond to latest knowledge and do not represent any product specification



Tube mills require specialized lubricants to protect equipment in areas of high loads, water exposure, and high temperatures



Extraordinary water resistance is provided by these specialized and proven lubricants

APPLICATIONS

- Roller bearings
- Corrosion protection
- Plain bearings
- Chains

PROPERTIES

- High loads
- High speed
- Good pumpability
- High temperatures
- Resistant to water