



Lubrication solutions  
for the textile industry



**BECHEM**  
LUBRICATION  
TECHNOLOGY





# Intelligent lubricants to cut down maintenance costs and improve productivity

## BECHEM – Lubrication solutions for industry





As the oldest German manufacturer of industrial lubricants, BECHEM is one of the leading producers of high-quality special lubricants and metalworking fluids today.

BECHEM products stand out through innovative formulations in the most diverse industrial applications – in machining and forming for metalworking processes, in coating technology and as for-life lubricants in various technical components.



A strong network of distributors and several national and international production sites ensure that BECHEM products are readily available worldwide.

**Tomorrow's technologies. Today.**

### APPLICATIONS

- Roller bearings 
- Plain bearings 
- Chains 
- Closed gears 

### PROPERTIES

- Corrosion protection 
- Low temperatures 
- High temperatures 
- High speed 
- High loads 
- Resistant to water 
- Good pumpability 
- Low residue level 
- Available in aerosols 
- Product in aerosols 

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

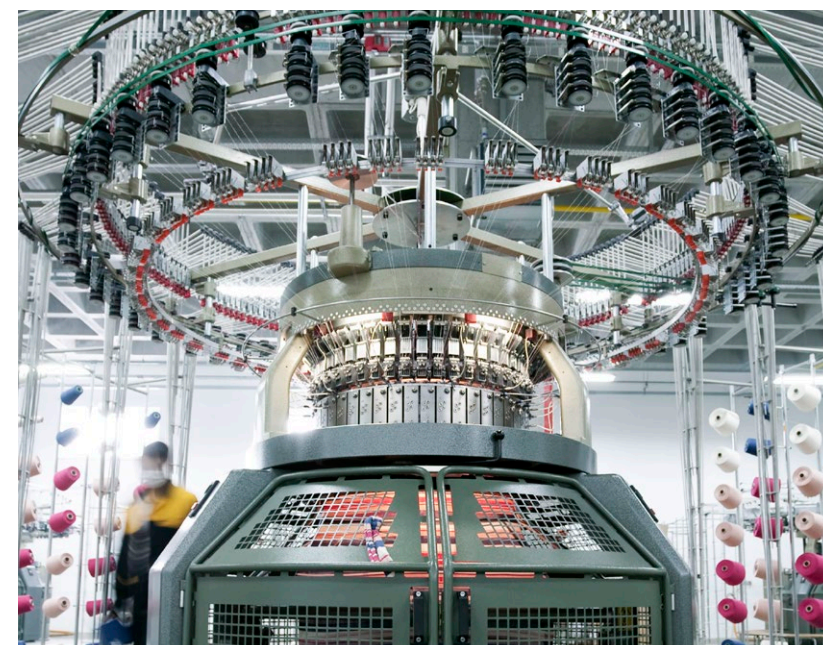


# Lubricating greases

Modern day textile production involves high degree of automation to control high speed precision processes.

Quality of textile output depends on efficient and precise working of multitude of moving parts involving bearings and sliding elements, drive and control chains and complex gear mechanisms. These mechanical parts are exposed to severe forces and demanding conditions. In order to provide effective lubrication for textile machinery, the lubricant needs to absorb high speed vibrations, control temperature variations, be resistant to chemicals and contaminants. Extended lubricant service life with minimal maintenance is of utmost importance. Considering the numerous lubricating points in a typical textile machinery, lubricants with extended service life, help reduce labor costs and shop floor productivity loss significantly.

BECHEM high-performance lubricants for textile processes have exceeded established performance standards of the past and set new benchmarks. BECHEM products have been recommended by leading textile machine manufacturers for its role in reducing maintenance down time and enhancing machine reliability.



PRODUCT	Base oil		Thickener	NLGI-grade	Kinematic viscosity (mm <sup>2</sup> /s) at 40 °C / 100 °C	Service temperature range (°C)	Description
Textile spinning	<b>Berulub FR 43 Spray</b> 🌀🌀🌀	Polyalphaolefin (PAO)	Special lithium soap	2	32 6	-50 +140	Special lubricant for locking mechanisms of bobbin holders in suspended flyers of simplex machines (OEM approval), provides long-life lubrication and surface protection of steel springs and pins
	<b>Berulub KR-EP 2</b> 🌀🌀🌀🌀	Synthetic oil combination	Lithium soap	2	15 4	-50 +120	To lubricate end bushes of draw frames, drum shaft bearings of autoconers and other high-speed bearings, special synthetic oil for efficient lubrication, contains extreme pressure additives for excellent wear protection
	<b>BECHEM High-Lub LFB 2000</b> 🌀🌀🌀🌀	Mineral oil	Lithium soap	2	180 15	-20 +140	To lubricate neck bearings of fluted rollers (bottom rolls), bearings in ring frames, jockey pulley and tin roll shaft bearings, excellent sealing properties guarantee reduced contamination of needle bearings by ingress of fluffs, long-life lubrication, corrosion protection
	<b>Berutemp FB 38</b> 🌀🌀🌀🌀🔍	Polyalphaolefin (PAO)	Barium complex soap	1	160 20	-40 +180	Low and high-temperature lubricating grease for roller and plain bearings subjected to high loads, e.g. top arm bearings, does hardly form any residues even after long periods of use, reliable corrosion and wear protection, also available in NLGI-grade 2
	<b>Beruplex LI-EP 2</b> 🌀🌀🌀🌀	Mineral oil	Lithium complex soap	2	180 16	-30 +150	For long-life lubrication of main motor bearings and fluted rollers of ring frames, detaching rollers of high speed combers (OEM approval), ability to withstand high loads, vibrations and shock loads, very good corrosion and wear protection at elevated temperatures
	<b>Berutox M 21 EPK</b> 🌀🌀🌀🌀	Mineral oil	Polyurea	1-2	490 32	-20 +160	For long-life lubrication of top arm bearings and variator assembly in ring frames, good high temperature properties, high load carrying capacity
	<b>Beruplex HTA</b> 🌀🌀🌀🌀🔍	Mineral oil	Aluminium complex soap	2	230 15	-25 +190 +200	Multipurpose, long-life high-temperature grease to lubricate dust collection motor bearings, reliable protection of components even in dusty environments, reliable corrosion protection
	<b>BECHEM High-Lub LT 2 EP</b> 🌀🌀🌀🌀🔍	Mineral oil	Lithium soap	2	180 15	-30 +140	Multipurpose high-performance EP lubricating grease (OEM approval), allows extended re-lubrication intervals, very good corrosion and wear protection
Textile sizing	<b>Berutox FH 28 KN</b> 🌀🌀🌀🌀🔍	Polyalphaolefin (PAO)	Polyurea	1-2	400 40	-30 +180 +200	Synthetic high-temperature grease to lubricate bearings of drying cylinders, well resistant to chemicals and water, good oxidation resistance and corrosion protection properties
	<b>Berutox M 21 KN</b> 🌀🌀🌀🌀🔍	Mineral oil	Polyurea	1-2	490 32	-20 +180	Long-life lubricating grease for bearings exposed to water and moisture, very good corrosion and wear protection, high mechanical stability over the whole temperature range
Textile processing	<b>Beruplex HTA</b> 🌀🌀🌀🌀🔍	Mineral oil	Aluminium complex soap	2	230 15	-25 +190 +200	High-temperature grease for long-term lubrication of hot air blower fans of stenters, allows extended re-lubrication intervals
	<b>Berutemp 500 T 2</b> 🌀🌀🌀🌀🔍	Perfluoropolyether (PFPE)	Polytetrafluoroethylene	1-2	510 45	-20 +260	Fully synthetic (PFPE/PTFE) grease suitable for bearings exposed to extreme high temperatures for long duration such as stenter frames in textile processing, hot air fans etc, extremely good thermal and chemical stability
	<b>Berulub XP 719</b> 🌀🌀🌀🌀🔍	Ester	Gel	2	1600 150	-40 +200	Fully synthetic high temperature grease, highly suitable for providing excellent lubrication for door seals of Yarn Conditioning Plant (YCP), excellent steam resistance, allows extended re-lubrication intervals

<sup>1)</sup>Value in gray indicates a possible short-term maximum temperature

» Outstanding success worldwide –  
BECHEM products for the textile industry. «



# Lubricating oils

BECHEM's range of mineral and synthetic oil based products developed with advanced additives have been approved by machine manufacturers across the globe. These high performance products are recommended for the critical applications in spinning, thread or fabric manufacturing as well as conveyor chains. BECHEM's range also includes solid lubricant containing pastes and anti-friction coatings for extreme high temperature applications.

## For spinning

- Carding machine
- Comber draw frame
- Speed frame
- Ring frame
- Autoconer
- Two-For-One Twister (TFO)
- Open-end spinning machine

## For weaving and knitting

- Woven label looms
- Warping
- Sizing
- Looms

## For processing

- Singeing
- Mercerising
- Stenter
- Dyeing Machine

## For man-made textiles

- POY: Partially Oriented Yarn
- PSF: Polyester Staple Fiber
- FDY: Fully Drawn Yarn
- Winder
- Texturising

	PRODUCT	Base oil	Kinematic viscosity (mm <sup>2</sup> /s) at 40 °C		Viscosity Index	Pour point (°C)	Flash point (°C)	Specification	Type	Description
			150	165						
Textile spinning	<b>Berusynth GP 150</b> 🔧 ⚙️ 🛢️	Polyalphaolefin (PAO)	150	165	-50	≥ 265	DIN 51517-3	CLP HC	Synthetic service lubricant for high-speed combers and gears (OEM approval), reduces temperature and power loss, resistant to ageing	
	<b>Berugear GS 220 BM</b> 🛢️ ⚙️ 🛢️	Mineral oil	233	100	-26	≥ 250	DIN 51517-3	CLP	Running-in lubricant for high-speed combers (OEM approval), PD additive technology supports the improvement of the contact area and increases the resistance to micro pitting by the formation of reactive surface layers	
	<b>BECHEM LC Spindle Oil</b> 🛢️	Mineral oil	10	95	-24	≥ 150	DIN 51524-2	HLP 10	Long collar oil for simplex machines, allows extended re-lubrication intervals, reduces the coefficient of friction	
	<b>Beruspun Highgrade 10</b> 🛢️	Mineral oil	10	95	-24	≥ 150	DIN 51524-2	HLP 10	For ring frame spindle application (OEM approval), excellent oxidation stability, provides good corrosion protection, allows extended re-lubrication intervals	
Textile knitting	<b>BECHEM Staroil KNT 32-1</b> 🔧 🛢️	Oil combination	34	140	-36	≥ 220	DIN 62136-1		High performance knitting oil with special additive package for excellent lubricity, ensuring longer needle and sinker life, excellent washing out properties, leaves no residue after extended use, high viscosity index for reliable lubrication during cold start and in the warmed up knitting machine, also available in viscosity grade 22 and 46	
Textile weaving	<b>Berusynth EP 100 → 150</b> 🛢️ 🔧 ⚙️	Polyglycol	100 150	203 196	-42 -39	≥ 240 ≥ 240	DIN 51517-3	CLP PG	Recommended for central lubrication systems of looms (OEM approval), increased sump life, reduced friction coefficient, lower temperature and power loss	
	Textile weaving & sizing	<b>Berusynth GP 150</b> 🔧 ⚙️ 🛢️	Polyalphaolefin (PAO)	150	165	-50	≥ 265	DIN 51517-3	CLP HC	Synthetic oil for gear boxes, extended re-lubricating intervals, reduced temperature and power loss
<b>BECHEM Staroil G 150 → 220</b> 🛢️ ⚙️ 🛢️		Mineral oil	150 220	95 100	-27 -26	≥ 230 ≥ 230	DIN 51517-3	CLP	Special gear oil for let off and take up gear boxes, outstanding load-carrying capacity, provides wear protection, allows extended oil changing intervals	
<b>BECHEM Staroil G 320</b> 🛢️ ⚙️ 🛢️		Mineral oil	320	95	-18	≥ 230	DIN 51517-3	CLP	Special gear oil for cam box, high load-carrying capacity, good wear protection	
Textile processing	<b>Berusynth CU 250</b> 🛢️ 🔧 🛢️	Ester	250	120	-45	≥ 250			High-temperature chain oil for oil lubricated stenters, hardly forms any residues, excellent temperature-viscosity behaviour, combines high adhesive power on chain surfaces with good penetration properties, low evaporation loss	



# Textile Industry / Clothing Industry

Lubricants for greater  
sustainability



## LUBRICATION SOLUTIONS FOR INDUSTRY

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