



## Next Generation Industrial Lubricants



## BECHEM for high quality Speciality Greases and Oils

BECHEM's global range of high performance lubricants cover the entire spectrum of industrial applications. Designed for critical applications such as heavy duty gears, bearings, chains, as well as high speed bearings to name a few, BECHEM's special lubricants are recommended in core heavy industries such as Steel, Cement, Mining, Power, Paper processing, Railways etc. as well as in vital high-tech sectors such as Automotive, Textile, Food, pharma & beverage, Sugar processing etc.

### About BECHEM

Established in the year 1834 in Germany, BECHEM pioneered the concept of specialty lubricants. BECHEM focuses on constant product innovation and thorough application engineering. This guiding principle helped BECHEM evolve as a niche supplier of high performance specialty lubricants. Based on advanced formulation, the BECHEM group today offers specialized products for critical industrial applications across the world.

Tomorrow's Technologies. Today.

#### APPLICATION PICTOGRAMS

- Automotive industry 
- Chain 
- Closed gears 
- Electrical contacts 
- Good pumpability 
- High loads 
- High speed 
- High temperature 
- Low temperature 
- Noise damping 
- Open gears 
- Plain bearings 
- Rails 
- Resistant to water 
- Roller bearings 
- Wire rope 
- Electrical contacts 
- Food grade 
- Sanitary fittings 
- Industrial fittings 
- Compatible with plastics 

# >> High Temperature Greases <<

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>Berutox FH 28 KN</b>  Fully synthetic high temperature grease	Polyalphaolefin (PAO)	Polyurea	1-2	-30 to +180 Short term upto +200	<ul style="list-style-type: none"> <li>• Suitable for bearings subjected to high temperatures</li> <li>• Bearings in annealing furnaces, drying kilns, conveyor systems, hot air fans, electric motors etc.</li> <li>• Approved for NSF H2 applications</li> <li>• Trolley wheel bearings in liquid paint and powder coating conveyors</li> </ul>	<ul style="list-style-type: none"> <li>• Long term lubrication even at elevated temperatures</li> <li>• Does not form hard residues at high temperatures</li> <li>• Excellent temperature consistency behaviour</li> <li>• Good corrosion protection</li> <li>• Reliable wear protection</li> </ul>
<b>Berutox FH 28 EPK 2</b>  Fully synthetic high temperature grease	Polyalphaolefin (PAO)	Polyurea	2	-30 to +180	<ul style="list-style-type: none"> <li>• Used in roller bearings subjected to high temperatures and loads such as in annealing and drying furnaces</li> <li>• Rotary kilns, cooling beds, conveyor systems, hot air fans, electric motors, waste gas fans for aggressive agents, gate valves in bulk material container systems</li> <li>• Trolley wheel bearings in liquid paint and powder coating conveyors exposed to heavy loads. Corrugator fluting roll bearings</li> </ul>	<ul style="list-style-type: none"> <li>• Long term lubrication even at elevated temperatures and high loads</li> <li>• Does not form hard residues at high temperatures</li> <li>• Excellent temperature consistency behaviour</li> <li>• Good corrosion protection against chemicals</li> </ul>
<b>Berutox FB 22</b>  Multipurpose high speed grease for longterm lubrication	Polyalphaolefin (PAO)	Barium complex soap	2	-40 to +180	<ul style="list-style-type: none"> <li>• Plain and roller bearings, threaded spindles, toothed gears, worm gears which are subjected to extreme temperature fluctuations and loads</li> <li>• Very beneficial for small gears operating with strong vibrations</li> <li>• For CNC machine spindle bearings operating at high RPM</li> <li>• ID/FD fan bearings. Rubber seal lubrication in shock absorbers</li> <li>• High speed miniature bearings in home appliances and textile applications</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent consistency temperature property</li> <li>• Suitable for bearings with high vibratory loads and high speed</li> <li>• Extends re-greasing interval</li> <li>• Provides excellent resistance against water and process media</li> <li>• Possesses good pumpability</li> <li>• Provides reliable corrosion protection</li> </ul>
<b>Berutox VPT 64-2</b>  Fully synthetic high temperature grease	Perfluoropolyether (PFPE)	Polytetrafluoroethylene - (PTFE)	2	-30 to +260	<ul style="list-style-type: none"> <li>• Suitable for bearings exposed to extreme high temperatures for long durations</li> <li>• To lubricate plain and roller bearings such as in electric motors, hot air fans, conveyor systems, baking equipment, tyre moulds etc.</li> <li>• Bearings used in reactor vessels exposed to chemicals and solvents in pharmaceutical industry</li> </ul>	<ul style="list-style-type: none"> <li>• Extended re-lubrication at extreme high temperatures</li> <li>• Extremely good thermal and chemical stability</li> <li>• Excellent compatibility with plastics and rubber-elastic material</li> <li>• Has VW TL 52141 approval</li> </ul>
<b>Berutemp 500 T2</b>  Fully synthetic high temperature grease	Perfluoropolyether (PFPE)	Polytetrafluoroethylene (PTFE)	1-2	-20 to + 260	<ul style="list-style-type: none"> <li>• For plain and roller bearings exposed to high temperatures</li> <li>• To lubricate guideways in continuous ovens, electric motors of hot gas fans, tyre moulds and other high temperature applications etc.</li> <li>• NSF H1 and ISO 21469 approved</li> <li>• High temperature bearings in wafer biscuit curing ovens</li> </ul>	<ul style="list-style-type: none"> <li>• High temperature grease with extended life lubricating characteristics</li> <li>• Synthetic grease resistant to thermal and chemical decomposition</li> <li>• Provides long lubrication life</li> <li>• Compatible with most plastic and elastomer materials</li> </ul>
<b>Berutemp 170</b>  Synthetic high performance grease	Synthetic oil	Polytetrafluoroethylene (PTFE)	1-2	-20 to + 200	<ul style="list-style-type: none"> <li>• For plain and roller bearings exposed to extreme temperatures</li> <li>• Suited for trolley bearings of overhead conveyors that pass through high temperature zones</li> <li>• Bearings used in reactor vessels exposed to chemicals and solvents in pharmaceutical industry</li> </ul>	<ul style="list-style-type: none"> <li>• Synthetic grease with low evaporation tendency</li> <li>• Possesses good antiwear and extreme pressure properties</li> <li>• Highly adhesive</li> <li>• Provides good resistance against water</li> <li>• Ensures good compatibility with elastomers</li> </ul>

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>Berutox M21 KN</b>  High temperature grease	Mineral oil	Polyurea	1-2	-20 to +180	<ul style="list-style-type: none"> <li>Bearings exposed to high temperatures such as in roller bearings of continuous casters, annealing or drying furnaces</li> <li>Rotary kilns, cooling beds, conveyor systems, hot air fans, electric motors, waste gas fans for aggressive agents, ideal for central lubrication systems</li> </ul>	<ul style="list-style-type: none"> <li>High temperature grease for long term lubrication</li> <li>Excellent pumpability</li> <li>Excellent temperature consistency behaviour</li> <li>Good corrosion protection</li> <li>Provides excellent resistance against water</li> </ul>
<b>Beruplex HTA</b> (Alutherm 2/3 / High-Lub HTA)  High temperature multipurpose grease	Mineral oil	Aluminium complex	2	-25 to +190	<ul style="list-style-type: none"> <li>Suitable for electric motors, hot air fans, conveyor systems exposed to severe radiation heat, furnaces, converters, pouring ladles, clutch thrust bearings</li> <li>Free from solid lubricants and is appropriate for use in central lubrication systems</li> <li>Bearings exposed to dust like pulveriser and grinding units in spice powder manufacturing industry</li> </ul>	<ul style="list-style-type: none"> <li>High temperature grease for long term lubrication</li> <li>Reliable antiwear protection</li> <li>Ensures lubrication even at high loads</li> <li>Demonstrates excellent pumpability in central lubrication systems</li> <li>Ensures good corrosion protection</li> </ul>
<b>Berutox M 21 EPK</b>  Multipurpose grease with antiwear and longterm lubricating characteristics	Mineral oil	Polyurea	1-2	-20 to +160	<ul style="list-style-type: none"> <li>To lubricate mechanisms exposed to corrosive environments, high temperatures and shock loads</li> <li>Components in the automotive industry such as door locking systems, hinged joints, shifting linkages or plastic components for electric motors</li> </ul>	<ul style="list-style-type: none"> <li>Good plastic compatibility</li> <li>Good adhesion</li> <li>Provides good water resistance</li> <li>Very high load carrying capacity</li> <li>Good oxidation stability</li> </ul>
<b>Berutemp M 2 KN</b>  High temperature grease	Mineral Oil	Polyurea	2	-20 to + 180	<ul style="list-style-type: none"> <li>For bearings of hot air fans, dry end bearings in paper processing machine, pellet mill bearings etc.</li> <li>Recommended for automotive applications and bearing industry</li> <li>For bearings exposed to high temperature and high loads in steel industry</li> <li>For bearings exposed to cement / water slurry in asbestos manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>Possesses excellent temperature / consistency behaviour</li> <li>Demonstrates controlled oil bleed characteristics</li> <li>Provides excellent resistance against water</li> <li>Protects against corrosion</li> <li>Possesses extreme pressure properties</li> </ul>

## >> Long Life Extreme Pressure Greases <<

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>BECEM High-Lub LFB 2000</b>  Multipurpose EP grease with emergency run properties	Mineral oil	Lithium soap	2	-20 to +140	<ul style="list-style-type: none"> <li>To lubricate plain and roller bearings, guideways, machine parts used in constructional machinery, machine tools, paper mills, textile industry, household and washing machines, electrical and precision instruments</li> </ul>	<ul style="list-style-type: none"> <li>White solid lubricants prevent metal-to-metal contact reducing the coefficient of friction at high loads</li> <li>Resistant to hot and cold water</li> <li>Reliable corrosion protection</li> </ul>
<b>BECEM Premium</b>  Water resistant EP grease	Mineral oil	Lithium calcium soap	2	-30 to +130	<ul style="list-style-type: none"> <li>Suitable for high load roller and plain bearings for long term lubrication</li> <li>Prolongs relubrication intervals and minimises wear</li> <li>For the phosphor bronze bushes used in forging presses</li> <li>Gear boxes used in home appliance industry like washing machine</li> <li>Centralised lubrication of plastic injection molding machinery <i>Also available in NLGI 3, 1, 0 and 00</i></li> </ul>	<ul style="list-style-type: none"> <li>Reliable corrosion protection</li> <li>Good load carrying capacity</li> <li>Good water washout properties</li> </ul>

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>BECHEM High-Lub LT 2 EP</b>  Multipurpose EP grease	Mineral oil	Lithium soap	2	-20 to +120	<ul style="list-style-type: none"> <li>For Lubrication of plain and roller bearings</li> <li>Conveyor rollers, electric motor, fans, axle bearings, life-lubricated bearings in motor vehicles</li> <li>Suitable for central lubrication systems</li> </ul>	<ul style="list-style-type: none"> <li>Reliable antiwear and corrosion protection</li> <li>Suitable for long term / life lubrication</li> <li>Water absorption will not affect consistency</li> </ul>
<b>BECHEM High-Lub LT 2 EP 400</b>  Heavy duty grease with excellent pumpability	Mineral oil	Lithium soap	2	-20 to +140	<ul style="list-style-type: none"> <li>For plain and roller bearings exposed to medium to high loads</li> <li>Recommended for hot and cold rolling mills, applications in construction machinery, equipments in mining industry</li> <li>Multipurpose lubrication of pellet mill bearings</li> <li>Bearings exposed to water in granite processing industry</li> </ul>	<ul style="list-style-type: none"> <li>Provides good resistance against water ingress</li> <li>Provides protection against corrosion</li> <li>Good EP properties</li> <li>Possesses excellent pumpability</li> </ul>
<b>BECHEM High-Lub L2 MO</b>  Heavy duty and long life grease	Mineral oil	Lithium soap	2	-20 to +120	<ul style="list-style-type: none"> <li>For bearings and joints in rolling mills, machine tools, constructional machinery, rail road vehicles, tractors, crushers, cranes, brake-rod linkages, eccentric bearings</li> <li>Suitable for life lubricant in small roller bearings used in electric motors, household appliances</li> </ul>	<ul style="list-style-type: none"> <li>Contains MoS2</li> <li>Good antiwear protection</li> <li>Reliable corrosion protection</li> <li>Good load bearing property</li> </ul>
<b>BECHEM High-Lub SW 2</b>  Multipurpose lubricant suitable for salt water atmosphere	Mineral oil	Special calcium soap	1-2	-25 to +180	<ul style="list-style-type: none"> <li>Winches, screw, hinges, open gears, cylinder guides, threaded spindles and other machine parts of off shore machinery, ship yards</li> <li>For equipments in wet sections of textile and paper industry</li> <li>Specially suitable for steel ropes exposed to aggressive environmental conditions</li> <li>Journal and roller bearings and other machine parts of water pumps, water turbines, flood gates, escalators and car wash systems</li> <li>High speed gears in power driven hand tools</li> <li>Corrosion protection of finely machined steel parts exported by sea</li> </ul>	<ul style="list-style-type: none"> <li>Provides resistance and corrosion protection against sea water</li> <li>EP additives provide high wear protection</li> <li>Also available in aerosol spray form</li> </ul>
<b>BECHEM High-Lub FA 67-400</b>  Heavy duty, long life grease	Mineral oil	Lithium calcium soap	2	-20 to +130	<ul style="list-style-type: none"> <li>For long term lubrication of heavily loaded, high speed bearings</li> <li>Suitable for bearings exposed to water ingress</li> </ul>	<ul style="list-style-type: none"> <li>Reduced friction at high loads and speeds</li> <li>Provides good resistance against water ingress</li> <li>Provides reliable corrosion protection</li> </ul>
<b>BECHEM High-Lub FA 67 400 KS</b>  Heavy duty, long life grease	Mineral oil	Lithium calcium soap	2	-20 to +140	<ul style="list-style-type: none"> <li>For long term lubrication of heavily loaded high-speed roller bearings</li> <li>Suitable for bearings exposed to water ingress</li> </ul>	<ul style="list-style-type: none"> <li>Reduced friction at high loads and speeds</li> <li>Provides good resistance against water</li> <li>Reliable corrosion protection</li> </ul>
<b>BECHEM High-Lub FA 50 MO</b>  High performance EP grease	Mineral oil	Lithium calcium soap	2	-20 to +120	<ul style="list-style-type: none"> <li>Roller and plain bearings in mining, construction and heavy industries</li> <li>Bearings of slew rings, crushers, screens, guide pads of large drive shaft joints, support for roller bearings of kilns</li> </ul>	<ul style="list-style-type: none"> <li>Excellent wear protection for extreme load, slow moving bearings</li> <li>Good corrosion protection</li> <li>High stability even when mixed with water</li> <li>High base oil viscosity / EP additives / solid lubricants ensures emergency running characteristics</li> </ul>

# >> Speciality Lubricants <<

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>Berulub XP 719</b>  Fuel resistant synthetic noise damping grease	Ester	Gel	2	-40 to +200 (stat.) -15 to +200 (dyn.)	<ul style="list-style-type: none"> <li>Used in automotive industry as a noise damping lubricant</li> <li>To minimise rattles &amp; squeaks caused by vibrations mainly in interior and exterior systems, like locks, hinges, sun roofs, window regulators and seat systems</li> </ul>	<ul style="list-style-type: none"> <li>Noise damping grease</li> <li>Very good water resistance</li> <li>High adhesive strength</li> <li>Good oxidation stability</li> <li>Low oil separation</li> </ul>
<b>Berulub XP 746</b>  Fuel resistant synthetic noise damping grease	Ester	Gel	0	-40 to +200	<ul style="list-style-type: none"> <li>Used in automotive industry to minimise rattles &amp; squeaks caused by vibrations mainly in interior and exterior systems, like locks, hinges, sun roofs, window regulators and seat systems</li> <li>Due to its fuel resistance it is also used for fuel systems, mainly fuel locks</li> </ul>	<ul style="list-style-type: none"> <li>Noise damping grease</li> <li>Very good water resistance</li> <li>High adhesive strength</li> <li>Good oxidation stability</li> <li>Low oil separation</li> </ul>
<b>Berulub PAL 1</b>  Noise damping multi-purpose grease	Ester	Polytetrafluoroethylene (PTFE)	1	-40 to +150	<ul style="list-style-type: none"> <li>Recommended for lubrication of telescopic boom cranes</li> <li>Recommended for damping of structure borne sound and frictional vibrations</li> </ul>	<ul style="list-style-type: none"> <li>Suitable for low temperature environments and applications Prevents stick slip</li> <li>Has very good adhesion</li> <li>Resistant to water, vapour or cleaning agents</li> </ul>
<b>Beruil FO 36 2</b>  Silicone grease	Silicone oil	Lithium soap	2	-50 to +180	<ul style="list-style-type: none"> <li>For frictional contacts of fine mechanics and optical instruments, consumer electronics and automotive industry parts</li> <li>Long term lubrication of automotive components like starter motor drive etc.</li> <li>Lubrication of rubber parts used in air brake systems of heavy vehicles</li> </ul>	<ul style="list-style-type: none"> <li>Excellent high and low temperature properties</li> <li>Good noise damping ability</li> <li>Good compatibility with plastics</li> <li>Provides long life lubrication, resistant to water exposure</li> <li>Prevents stick-slip</li> <li>Possesses high oxidation stability</li> </ul>
<b>Berulub KR EP 2</b>  Low temperature and high speed lubricant	Synthetic oil combination	Lithium soap	2	-50 to +120	<ul style="list-style-type: none"> <li>For high speed bearings</li> <li>To lubricate small or high precision bearings used in cryogenic technology, textile machines, machine tools, ski lifts and funiculars</li> <li>Suitable for low temperature applications</li> <li>High speed bearing lubrication like jockey pulley in textile industry</li> </ul>	<ul style="list-style-type: none"> <li>Very low internal friction, suitable for high speed bearings</li> <li>Protects mechanisms from corrosion and humidity</li> <li>Extends re-greasing interval</li> </ul>
<b>Berulub VPN 13 Ringlub</b>  High temperature fluid	Synthetic oil	-	-	-30 to +1150	<ul style="list-style-type: none"> <li>A universal screw compound containing solid lubricants suitable for all kinds of bolted connections exposed to severely high temperatures and corrosive influences</li> <li>Beneficial as an anti-seize compound / corrosion protection agent for screws, pins, bolts, flanges, spindles or press-fits such as used in refineries</li> </ul>	<ul style="list-style-type: none"> <li>Reliable corrosion protection</li> <li>Reduces the initial breakway torque of bolted connections</li> <li>Finest of copper particles ensure long term anti-seize effect</li> <li>Does not form hard or tacky residues</li> <li>Free from solvents and heavy metal</li> </ul>
<b>Berulub Sihaf</b>  Grease for water fixtures and taps	Silicone oil	Polytetrafluoroethylene (PTFE)	1	-40 to +160	<ul style="list-style-type: none"> <li>Air and rotary distributors of high performance filling machines in the brewery and beverage industry</li> <li>Suitable for ceramic sealing, water faucets, control discs in single lever mixing valves</li> <li>Lubrication and sealing of plug valves, rubber sleeves in sanitary ware and fitting applications</li> </ul> <p><i>Also available in NLGI 3 grade</i></p>	<ul style="list-style-type: none"> <li>Synthetic grease with PTFE additives for life lubrication</li> <li>Good compatibility with plastic and elastomers</li> <li>NSF H1 approved as well as Halal and Kosher certified</li> <li>Approved and registered under German (UBA, DVGW), British (WRAS), French (ACS), Austrian (TGM VA-KU 2337), Belgium (Belgaqua) standards for drinking water</li> <li>Free from MOSH (Mineral Oil Hydrocarbon) and MOAH (Mineral Oil Aromatic Hydrocarbon)</li> </ul>
<b>Berulub KR EL 2</b>  Lubricant for electrical contacts	Diester	Lithium soap	2	-50 to +120	<ul style="list-style-type: none"> <li>To lubricate and protect low voltage contacts of power and steering control, current switches in motor vehicles etc. at ambient, low or very low temperatures</li> </ul>	<ul style="list-style-type: none"> <li>Very good conductivity</li> <li>Good water repellent property</li> <li>Ensures perfect contact even at low spring pressure</li> <li>Forms protective layers to prevent contacts from corrosive attack</li> <li>Excellent low temperature behavior</li> </ul>

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>Berulub FR 43</b>  Special lubricant for metals and polymer materials	Polyalphaolefin (PAO)	Special lithium soap	2	-50 to +140	<ul style="list-style-type: none"> <li>For plastic-to-plastic &amp; plastic-to-metal contacts like door locking systems, central locking systems, window levers, sun roofs, seat adjustments, steering wheel locks, horn contacts, bowden cables as well as small and shift gears</li> <li>Also suitable for bridge displacement (stainless steel / PTFE)</li> </ul>	<ul style="list-style-type: none"> <li>Excellent low temperature behaviour</li> <li>Good water resistance &amp; oxidation stability</li> <li>Approved acc. to VW-TL 778 B</li> <li>Approved acc. Ford WSD-M1C 234-A2</li> <li>Contains PTFE additives</li> <li>Possesses noise damping properties</li> </ul>
<b>Berulub FR 16</b>  Speciality lubricant for metals and polymer materials	Polyalphaolefin (PAO)	Special lithium soap	2	-50 to +140	<ul style="list-style-type: none"> <li>To improve sliding characteristics of plain bearings with metal-to-plastic or metal-to-elastomer contacts</li> <li>Suitable as an assembly aid for O-rings, lip seals, sleeves and other sealing elements made from rubber- elastic materials such as the ones used in hydraulic brake systems in motor vehicles</li> </ul>	<ul style="list-style-type: none"> <li>Reliable corrosion protection</li> <li>Good ageing and oxidation resistance</li> <li>Increases life of static or dynamically stressed rubber seals</li> <li>High load carrying capacity</li> <li>Contains PTFE additives</li> <li>Possesses noise damping properties</li> </ul>
<b>Berulub FR 16 HF</b>  Special grease for metal and polymer materials	Polyalphaolefin (PAO)	Special lithium soap	2	-50 to +140	<ul style="list-style-type: none"> <li>Door locking mechanisms</li> <li>Central locking systems</li> <li>Window regulators</li> <li>Sun roofs and seat adjustment mechanisms</li> <li>Steering wheel locks</li> <li>Push-pull cables</li> <li>Small and shift gears for wiper systems and seat adjustments</li> </ul>	<ul style="list-style-type: none"> <li>Possesses excellent low temperature behaviour</li> <li>Provides long life lubrication</li> <li>Resistant to water, contains UV tracer, highly adhesive</li> <li>Contains PTFE additives</li> <li>Possesses noise damping properties</li> <li>Prevents stick slip</li> </ul>
<b>Berulub FA 46</b>  Multi-purpose grease for food industry	White oil	Aluminium-complex soap	2	-20 to + 120	<ul style="list-style-type: none"> <li>Recommended for bearings of machine parts in dairies, breweries, kitchens, food and pharma industry</li> <li>NSF H1 and ISO 21469 registered</li> </ul>	<ul style="list-style-type: none"> <li>Neutral in smell and taste</li> <li>Provides effective protection against wear</li> <li>Adhesive and provides sealing effect</li> <li>Provides good resistance against water and vapour</li> <li>Provides resistance against oxidation and ageing</li> </ul>
<b>Berulub FB 34</b>  High-performance grease for food industry	Polyalphaolefin (PAO)	Aluminium-complex soap	1	-40 to + 160	<ul style="list-style-type: none"> <li>Recommended for plain and roller bearings, cam discs, guides and rollers in food and pharma industry including dairy, breweries, bottling plants, canning factories, coffee roasters, potato peelers etc.</li> </ul>	<ul style="list-style-type: none"> <li>Synthetic lubricant with anti wear and corrosion protection properties</li> <li>Advanced additives provide resistance to water and vapour as well</li> <li>NSF H1 approved food grade grease, neutral in smell and taste</li> </ul>
<b>Berulub FH 57</b>  Special Lubricant	Polyalphaolefin (PAO)	Polyurea	1-2	-40 to + 160	<ul style="list-style-type: none"> <li>Suitable for lubrication of friction partners in automotive switches, spur gears, various dynamic seals, small gears, sliding parts and cams in HVAC systems etc.</li> </ul>	<ul style="list-style-type: none"> <li>Synthetic grease with PTFE additives for superior resistance against friction and wear for contacting surfaces of metal and polymer materials</li> <li>Possesses excellent noise dampening properties and prevents stick slip phenomenon</li> <li>Provides long lubrication life</li> <li>Can perform at extreme low temperatures</li> </ul>
<b>Berulub FR 16 B</b>  Special Lubricant for metal and polymer materials	Polyalphaolefin (PAO)	Lithium calcium soap	2	-50 to + 140	<ul style="list-style-type: none"> <li>Suitable for automotive applications such as door and central locking systems, window regulators, sunroofs, mirror and seat adjustment mechanisms, steering wheel locks etc.</li> <li>For lubrication of electrical systems with sliding contacts</li> </ul>	<ul style="list-style-type: none"> <li>Dynamically light, multi-purpose grease with excellent low temperature behaviour</li> <li>Provides long life lubrication</li> <li>Resistant to water</li> <li>Prevents stick slip</li> </ul>
<b>Berutemp FH 28 G</b>  Fully synthetic high temperature grease with solid lubricants	Polyalphaolefin (PAO)	Polyurea	1	-40 to + 200	<ul style="list-style-type: none"> <li>Demonstrates excellent viscosity-temperature behaviour</li> <li>Resistant to water, vapour and cleaning agents</li> <li>Contains fine graphite as solid lubricant for superior lubrication</li> <li>Lubrication of gas taps used in home appliances</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for sliding mechanisms subjected to oscillating motion</li> <li>Recommended for bearing and low speed gears subjected to extreme temperatures</li> <li>Recommended for seal valve spindles</li> </ul>

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>Berulub 52142</b>  Special polyurea grease for switch gear mechanism	Mineral oil / Polyalphaolefin	Polyurea	2	-35 to + 160	<ul style="list-style-type: none"> <li>Life lubricant recommended for bearings and other sliding mechanisms in motor vehicles subjected to high pressure, shock loads and vibrations</li> <li>Suitable for plastic bearings, guides, push pull cables, support bearings in steam turbines etc.</li> <li>Bearings used in high speed applications like gas turbine</li> </ul>	<ul style="list-style-type: none"> <li>Special high performance grease with long term lubrication</li> <li>Good compatibility with plastics</li> <li>Has good noise dampening properties</li> <li>Prevents stick slip and protects application from fretting corrosion</li> </ul>
<b>BECHEM High-Lub LV2</b>  Special lubricant	Mineral / Synthetic Mix	Lithium soap	2	-40 to + 140	<ul style="list-style-type: none"> <li>For automotive door and central locking systems, window lifters, sunroofs, seat adjustments, steering wheel locks, horn contacts etc.</li> <li>Also recommended for Bowden cables, small and shift gears Suitable for plain and roller bearings</li> <li>Lubrication of actuators, sliding parts in API valve manufacturing industry</li> </ul>	<ul style="list-style-type: none"> <li>Excellent low temperature properties</li> <li>Dynamically light, multi- purpose grease with additives for reduced friction and wear</li> <li>Neutral towards many plastics and elastomers</li> <li>Possesses excellent oxidation stability</li> <li>Demonstrates good Low temperature behaviour</li> </ul>
<b>BECHEM High Lub FA 67-2</b>  Long life lubricating grease for high speeds	Mineral oil	Lithium Calcium	2	-30 to +130	<ul style="list-style-type: none"> <li>Long term lubricating grease for high load as well as high speed applications</li> <li>Long term lubrication of heavily loaded, high speed roller bearings</li> <li>Lubrication of automotive components such as window regulators, channels and pulleys</li> </ul>	<ul style="list-style-type: none"> <li>Possesses good wear protection</li> <li>High load carrying capacity</li> <li>Provides superior water resistance as well as reliable corrosion protection</li> <li>Extends re-lubrication interval</li> <li>Demonstrates good pumpability</li> </ul>
<b>BECHEM High-Lub Textile Super</b>  Long life EP grease for textile industry	Mineral oil	Lithium soap	2	-20 to +120	<ul style="list-style-type: none"> <li>To lubricate plain and roller bearings in the textile Industry</li> <li>Suitable for bottom fluted bearings, draw frame end bushes, TFOs, calender rollers, card roll bearings, small electric motor bearings, precision instruments etc.</li> </ul>	<ul style="list-style-type: none"> <li>White solid lubricants prevent metal-to-metal contact reducing coefficient of friction at high loads</li> <li>Long term lubricant</li> <li>Lubrication period extended 3-4 times as compared to multipurpose greases</li> <li>Reliable corrosion protection</li> </ul>
<b>Beruplex LI EP 2</b>  Long life lithium complex grease	Mineral oil	Lithium complex soap	2	-30 to +150	<ul style="list-style-type: none"> <li>To lubricate wheel bearings of passenger cars and vehicles, joint / clutch pressure bearings, braking cylinders, ventilation systems, electric motors, rollers in drying plants of paper mills etc.</li> <li>Also available in NLGI 3 grade as Beruplex LI EP 3</li> </ul>	<ul style="list-style-type: none"> <li>Reduces wear, maintains efficacy in presence of extreme humidity and water vapour</li> <li>Provides reliable corrosion protection</li> </ul>
<b>BECHEM High-Lub LM 2-2</b>  Low temperature multi-purpose grease	Mineral oil	Lithium soap	2	-40 to + 120	<ul style="list-style-type: none"> <li>For automotive door and central locking systems, window lifters, sunroofs, seat adjustments, steering wheel locks, horn contacts etc.</li> <li>Also recommended for Bowden cables, small and shift gears</li> <li>Suitable for plain and roller bearings</li> </ul>	<ul style="list-style-type: none"> <li>Possesses good wear protection</li> <li>Neutral towards many plastics and elastomers</li> <li>Excellent low temperature properties</li> <li>Dynamically light, multi-purpose grease</li> </ul>

## >> Gear and Chain Oils <<

Product	Base Oil	Viscosity at 40°C (mm²/S)	Viscosity Index	Pour Point °C	Flash Point °C	Type	Application Area	Advantages
<b>Berusynth EP 100 - 1000</b>  Synthetic high performance EP oils Available in ISO VG 68/ 100/150/220/320/460/680/1000	Polyglycol	68 to 1000	196 to 278	-42 to -30	≥ 240 and ≥ 280	CLP PG	<ul style="list-style-type: none"> <li>Spur, conical and worm gears in rolling mills, paper mills, crushers, winches, cranes, dredgers and conveyors</li> <li>Heavily loaded bearings such as in vertical roller mills, roller presses, crushers</li> <li>Gearboxes and bearings exposed to continuous operating temperatures above 100°C</li> </ul>	<ul style="list-style-type: none"> <li>Provides extended oil change intervals</li> <li>Excellent oxidation stability and shear resistance</li> <li>Reduces the coefficient of friction, the oil sump temperature and thus the power loss</li> <li>Very high viscosity index</li> </ul>

Product	Base Oil	Viscosity at 40°C (mm²/S)	Viscosity Index	Pour Point °C	Flash Point °C	Type	Application Area	Advantages
<b>Berubynth GP 68 - 1000</b>  Synthetic high performance EP oils Available in ISO VG 68/150/220/320/460/680/1000	Synthetic	68 to 1000	155 to 165	-60 to -27	≥ 275	CLP HC	<ul style="list-style-type: none"> <li>Spur, conical and worm gears in rolling mills, paper mills, textile mills, crushers, cranes, and conveyors</li> <li>Oil circulation systems such as in paper mills, vertical roller mills and roller presses</li> <li>Gearboxes and bearings exposed to continuous operating temperatures above 100°C</li> </ul>	<ul style="list-style-type: none"> <li>Extended oil change intervals</li> <li>Excellent load carrying capacity and wear protection</li> <li>Excellent oxidation stability and shear resistance</li> <li>High viscosity index</li> <li>Reduces power loss</li> </ul>
<b>Berubynth Cu 250</b>  Fully synthetic high performance chain oil	Synthetic	250	120	-45	≥ 250	-	<ul style="list-style-type: none"> <li>Conveyor chains in stenters and drying frames in the textile industry, paint shops, stone wool and glass wool production, shrink tunnels, machines in the printing industry</li> <li>Lift chains in high-level rack storage facilities</li> <li>Machines in bakeries and beverage industry</li> <li>Lubrication of wire ropes</li> </ul>	<ul style="list-style-type: none"> <li>Very good penetration properties</li> <li>Excellent corrosion protection and high resistance to wash-off</li> <li>Low evaporation even at high temperatures, efficient upto 250°C</li> <li>Does not form any critical residues</li> <li>Adhesive, no drop-off, silicone free</li> </ul>
<b>BECEM Staroil G 100 - 680</b>  High performance long life gear oil Available in ISO VG 100/150/220/320/460/680	Mineral oil	100 to 680	95 to 100	+33 to -18	≥ 230 and ≥ 260	CLP	<ul style="list-style-type: none"> <li>Spur, conical and worm gears in rolling mills, cement plants, coal and ore processing plants, paper mills, textile mills, sugar mills, construction or earthmoving equipment, crushers, cranes and conveyors</li> <li>Oil circulation systems, plain bearings and slide ways such as in steel or rolling mills and processing plants</li> </ul> <p><i>Available in ISO VG 100/150/220/320/460/680</i></p>	<ul style="list-style-type: none"> <li>High performance gear oils made out of special mineral oils and state of the art additive package technology</li> <li>Suitable for heavily loaded bearings and gearboxes</li> <li>Prolongs oil changing intervals</li> <li>Will not attack mineral oil resistant seal material or machine paints</li> <li>Good oxidation and ageing resistance</li> <li>Good water and air release property</li> </ul>
<b>BECEM Staroil SMO 150 - 1500</b>  Heavy duty gear oil with MoS2 Available in ISO VG 150/220/320/460/680/1500	Mineral oil	150 to 1500	100 to 90	-33 to -10	≥ 220 and ≥ 230	CLPF	<ul style="list-style-type: none"> <li>Suitable for spur, conical and worm gearboxes in steel mills, cement plants, coal and ore processing plants, sugar mills, construction or earthmoving equipment, crushers, cranes and conveyors</li> <li>Converter bearings in basic oxygen furnaces</li> </ul>	<ul style="list-style-type: none"> <li>Contains MoS2 which imparts good load bearing property</li> <li>Good oxidation and ageing resistance</li> <li>Prolongs oil changing intervals</li> <li>Excellent air and water release capacity</li> <li>Good viscosity-temperature behaviour</li> </ul>
<b>Berugear GS 220 - 1500 BM</b>  High performance EP oils Available in ISO VG 220/320/460/680/1500	Mineral oil	220 to 1500	85 to 95	-26 to -9	≥ 250 and ≥ 230	CLP	<ul style="list-style-type: none"> <li>Berugear GSBM improves contact pattern by microscopic reformation of surface through chemical reaction</li> <li>Spur, conical and worm gears in rolling mills, rubber kneaders, crushers, calenders, winches, cranes and conveyor gearboxes with damaged or extremely high loaded tooth flanks</li> </ul>	<ul style="list-style-type: none"> <li>Solid free high performance gear oil</li> <li>Can be used as running-in oil even under load</li> <li>Very good load carrying capacity and wear protection</li> <li>Reduces co-efficient of friction, the oil sump temperature and thus power loss</li> <li>Very little foam formation</li> </ul>

## >> Gear Greases <<

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>BECEM Ceritol CS 415 EP</b>  Semi fluid grease	Mineral oil	Calcium complex soap	00	-20 to +120	<ul style="list-style-type: none"> <li>To be used for heavily loaded open and closed gears, gear couplings, joints, guideways, plain bearings</li> </ul>	<ul style="list-style-type: none"> <li>Good adhesion, holds its intrinsic structure</li> <li>Good water resistance, wear and corrosion protection</li> <li>Good load bearing ability</li> </ul>

# >> Open Gear Lubricants <<

Product	Base Oil	Thickener	NLGI Grade	Service Temperature [°C]	Application Area	Advantages
<b>Berulit EL 420</b>  Running-in lubricant	Mineral oil	Aluminium complex soap	0-00	-20 to +180	<ul style="list-style-type: none"> <li>Running-in lubricant for large open gear drives operating under heavy loads and circumferential speeds to be applied by automatic spray system</li> <li>Reduces the surface roughness of heavily loaded tooth flanks and increases the load contact pattern by a chemical physical wear process</li> </ul>	<ul style="list-style-type: none"> <li>Excellent running-in properties</li> <li>Reduces surface roughness of heavily loaded tooth flank</li> <li>High pressure resistant lubricating film can withstand extreme high loads / shock loads on the tooth flank</li> </ul>
<b>Berulit 443</b>  Priming lubricant	Mineral oil	Aluminium complex soap	2	-20 to +180	<ul style="list-style-type: none"> <li>Priming lubricant for large open gear drives, to be applied before starting the running-in operation</li> <li>Application by brush</li> <li>Open gear drives of small mixing drums, dryers and mills without a centralised lubrication system</li> <li>Also useful for lubrication of slide ways and guide pads</li> </ul>	<ul style="list-style-type: none"> <li>Good adhesion and priming properties</li> <li>Thermal stability upto +250°C</li> <li>High pressure resistant lubricating film</li> <li>Excellent wear and corrosion protection</li> <li>Contains no bituminous ingredients, solvents or toxic heavy metals</li> </ul>
<b>Berulit GA 400</b>  Adhesive lubricant for open gear drives	Mineral oil	Aluminium complex soap	0-00	-20 to +180	<ul style="list-style-type: none"> <li>Service lubricant for large open gear drives operating under heavy loads and high circumferential speeds</li> <li>To be applied by automatic spray systems</li> <li>Ensures high operational reliability of gear drives even under adverse dynamic and thermal conditions and long re-lubrication intervals</li> <li>Application areas: open gear drives of mixing drums, dryers, ball mills, rotary kilns, slew ring gears of converters, cranes, crushers or excavators with central lubrication systems</li> </ul>	<ul style="list-style-type: none"> <li>Good adherence</li> <li>High pressure resistant lubricating film</li> <li>Can withstand extreme high loads / shock loads on the tooth flank</li> <li>Excellent wear and corrosion protection</li> <li>Contains no bituminous ingredients, solvents or toxic heavy metals</li> <li>No hardening or brittling of lubricant film</li> </ul>
<b>Berulit GA 800</b>  Open gear lubricant	Mineral oil	Aluminium complex soap	0-00	-10 to +180		
<b>Berulit GA 2500</b>  Open gear lubricant	Mineral oil	Aluminium complex soap	00	+5 to +200		
<b>BECHEM Premium 1000</b>  Gear grease for dip lubrication	Mineral oil	Lithium soap	0	-30 to +150	<ul style="list-style-type: none"> <li>To be used for heavily loaded open gears, lubricated by dip lubrication</li> <li>Also suitable for couplings, joints, guideways</li> <li>Open gear drives of mixing drums, rotary kilns etc.</li> </ul>	<ul style="list-style-type: none"> <li>Good adherence</li> <li>High pressure resistant lubricating film</li> <li>Can withstand extreme high loads / shock loads on the tooth flank</li> </ul>

Product	Base Oil	Viscosity of active substance at 40°C (mm²/S)	Viscosity Index	Pour Point °C	Flash Point °C	Application Area	Advantages
<b>Berugear HV 10</b>  High performance, high viscous fluid	Mineral and Synthetic Oil	10,000	160	-12	≥ 160	<ul style="list-style-type: none"> <li>Recommended for open gear drives of rotary kilns, ball mills, autogenous mills, dryers and mixing drums.</li> <li>Also recommended for large slow running gearboxes and journal bearings in Cement, Mining and Sugar industry</li> </ul>	<ul style="list-style-type: none"> <li>Possesses very high load carrying capacity</li> <li>Extremely adhesive on metal surfaces</li> <li>Provides excellent wear protection due to formation of thick lubricating film</li> <li>Free of bituminous substances and toxic heavy metals</li> </ul>
<b>Berugear HV 20</b>  High performance, high viscous fluid	Mineral and Synthetic Oil	18,500	180	-15	≥ 160		

# Lubrication solutions for industry



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