

## Bechem Gear Lubricants

Technical Data

Application

Product	Short description	Temp.-range	Properties
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<p>BECHEM STAROIL G</p>	<p>Standard mineral oil based CLP gear oil, available in ISO VG 10 to 680.</p>	<p>-20°C to +100°C and -10°C to +130°C</p>	<p>Good oxidation and ageing resistance, good load carrying capacity and wear protection, extension of oil changing intervals, excellent water and air release capacity, good viscosity – temperature behaviour.</p>	<p>EP gear oil for heavily loaded pinion and worm gears, roller and plain bearings, slide ways in smelting and roller mill plants, conveyor systems in coal and ore processing plants, paper mills, construction or earthmoving equipment.</p>
<p>BECHEM STAROIL SMO</p>	<p>High performance gear and circulation oils with emergency running properties for heavily loaded bearings or gearboxes. Very beneficial to mechanisms exposed to high and/or shock loads with higher requirements concerning life time of the oil. Available in ISO VG 68 to 1500.</p>	<p>-30°C to +90°C and -5°C to +130°C</p>	<p>Good oxidation and ageing resistance, MoS<sub>2</sub> content offers improved load carrying capacity and wear protection, extension of oil changing intervals, excellent air and water release capacity, good viscosity – temperature behaviour.</p>	<p>Spur, conical and worm gears in rolling mills, cement plants, coal and ore processing plants, sugar mills, construction or earthmoving equipment, crushers, calenders, winches, cranes and conveyors.</p>
<p>BERUGEAR GS BM</p>	<p>Solid free high performance gear oils for bearings or gearboxes running</p>	<p>-20°C to +120°C and 0°C to +130°C</p>	<p>Can also be used as running-in oil even under load, very good load carrying capacity</p>	<p>Spur, conical and worm gears in rolling mills, rubber kneaders, crushers, calenders, winches, cranes and conveyors. Gear boxes with damaged or extremely high loaded tooth</p>

	<p>at high mechanical and dynamical loads.</p> <p>Forms reactive layers which provide a smoother surface and thus support the contact pattern.</p> <p>Available in ISO VG 100 to 1500.</p>		<p>and wear protection, reduces the coefficient of friction, the oil sump temperature and thus the power loss, very good corrosion protection, very little foam formation.</p>	<p>flanks.</p>
<p>BERULUB FG 8 EP</p>	<p>Suitable for heavily loaded spur gear systems or worm gears – even with little gear space – operating at low temperatures and/or outdoor conditions.</p> <p>Also beneficial to heavily loaded and high-speed plain bearings with little bearing clearance as well as for grease but not oil tight gears with vertical shafts.</p>	<p>-40°C to +120 °C</p>	<p>Very good adhesion, high water resistance, high oxidation and aging resistance, no scoring, less friction results in improved efficiency of worm gears.</p>	<p>Gears, hinged joints and gear motors such as used in the heavy industry. High-speed gears in electric tools.</p>
<p>BERUSYNTH EP</p>	<p>High performance oils for gears, roller and plain bearings at high mechanical or thermal loads.</p> <p>Especially for mechanisms with high sliding friction such as worm gears.</p> <p>Available in ISO VG 100 to 1000.</p>	<p>-30°C to +140°C and -25°C to +180°C</p>	<p>Excellent oxidation stability and shear resistance, very good load carrying capacity and wear protection, prolongs oil changing intervals, reduces the coefficient of friction, the oil sump temperature and thus the power loss, high viscosity index.</p>	<p>Spur, conical and above all worm gears in rolling mills, paper mills, crushers, calenders, rubber kneaders, winches, cranes, dredgers and conveyors. Heavily loaded bearings such in vertical roller mills, roller presses, crushers. Gear boxes and bearings exposed to continuous operating temperatures above 100°C.</p>

<p>BERUSYNTH GP</p>	<p>High performance oils for gears, roller and plain bearings at high mechanical or thermal loads. Especially for friction areas under open air conditions and at low temperatures. Available in ISO VG 68 to 1000.</p>	<p>-50°C to +140°C and -30°C to +180°C</p>	<p>Excellent oxidation stability and shear resistance, very good load carrying capacity and wear protection, prolongs oil changing intervals, reduces the coefficient of friction, the oil sump temperature and thus the power loss, high viscosity index.</p>	<p>Spur, conical and above all worm gears in rolling mills, paper mills, textile mills, crushers, calenders, winches, cranes and conveyors Oil circulation systems such in paper mills, vertical roller mills and roller presses Gear boxes and bearings exposed to continuous operating temperatures above 100°C.</p>
<p>BERUTOX M 21 EPK 420</p>	<p>Special gear lubricant for heavily loaded toothed or worm gears exposed to radiation heat or high ambient temperatures.</p>	<p>-15°C to 160°C</p>	<p>Soft semi-liquid structure, very good adherence, very high lubricant film pressure resistance, excellent wear and corrosion protection, will not flow out of leaky gear designs.</p>	<p>Heavily loaded gear boxes with leakage problems as e. g. at locomotive gears. Heavily loaded gear couplings and journal bearings. Heavily loaded universal joints as in the steel industry.</p>
<p>CERITOL CS 415 EP</p>	<p>Suitable for the lubrication of closed gears and gear motors operating at circumferential speeds of up to 4m/s as well as for gear couplings which require semi-fluid EP greases for reasons of load and tightness. Also suitable for open gears running at low circumferential speeds as well as plain bearings,</p>	<p>-20 to + 120 °C</p>	<p>Good adhesion, holds its intrinsic structure, highly water resistant, very good wear and corrosion protection, heavy metal free EP additives.</p>	<p>To be used for heavily loaded open and closed gears, gear couplings, joints, guide ways, plain bearings.</p>

	joints, guide ways equipped with re-lubrication devices.			
HIGH LUB GF	Special lubricant for gears operating at high mechanical loads which require special wear protection where oils would lead to leakages. Usable in gear boxes up to a circumferential speed of 2 m/s.	-20°C to +100 °C	High-viscous, adhesive, excellent wear and corrosion protection, also suitable for single line central lubricating systems.	Gear boxes in the steel, construction, mining and ceramic industry and in quarries. Gears and gearboxes of machine tools as well as gears in agricultural and forestry equipment.

The above data correspond to latest technology, modifications reserved. This information is intended as a guide and does not necessarily represent a marketing specification. In individual cases tests have to be carried out by the consumer. Further data upon request.