

RECOMMENDED LUBRICANTS FOR RUBBER TYRE INDUSTRY

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Lubrication of radially segmented tyre moulds.

Material contact : iron/bronze

Mechanisms exposed to high service temperature, high surface pressure and low sliding speed need proper lubricants.

Conventional oils or greases are unable to prevent increased wear or seizure of the contact surfaces.

Best results were obtained with Berutox VPT 183, a fully synthetic lubricating paste when used to support the running-in phase. Once micro flow of the surfaces during this run-in process has stopped (after approx. 5000 - 6000 cycles) it is sufficient to re-lubricate with BERUTOX VPT 64 fluid every 3000 cycles.

PRODUCT NAME	POINT OF APPLICATION	BENEFITS
High-Lub L474 Alternatively High-Lub LFB 2000	For universal use in all kinds of plain and roller bearings, suitable for temperature up to 120°C such as in presses, rolling mills, mixers.	Consumption of a formerly used competitor's product was 2 g/h. With BECHEM greases, consumption was reduced to 6-7 g/hr.
Berulit GA 400	Open gear drives	Apply by central lube systems (0,5 g/stroke). At elevated temp. and higher speeds, reduce quantity to 0,08g.
Bechem-Rhus Getriebefeit 525	Small gears up to 4 kW driving power (e.g. all kinds of hoists/lifting devices)	Gives better shaft sealing than oil.
Berutox M 21 EPK	Plain and roller bearings temp. up to +160°C, particularly designed for large motors in forced-draught fans up to 250 kW	Bearing life: Formerly: 4-5 months Now : 2 years
Berutox M 21 KN	Plain and roller bearings temp. up to +160°C, in the presence of water or humidity such as in kettle-type carts for autoclaves (bearings temp. +160°C), heating and cooling heads (such as Rotary, Johnson, Meier)	Bearing life: See M 21 EPK with C3 bearings.

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PRODUCT NAME	POINT OF APPLICATION	BENEFITS
Bechem Stalit EM (only for water hydraulic system)	Environmentally friendly and mineral oil free water hydraulic additive. For water hydraulically operated presses or autoclaves.	Produces real solution. Benefits are: <ul style="list-style-type: none"> • Corrosion protection for ferrous / non-ferrous metals • Filterability • Prolonged seal life. • Less maintenance cost / long life for pumps • Protects all hydraulic elements, hoses • Less downtime • Reduce foaming • Extends lubrication intervals
Bechem Hydrostar HEP	Synthetic ester, biodegradable hydraulic oil	
Bechem Staroil HVI	High viscosity index hydraulic oil for high temperature resistance	
High-Lub SW 2	Assembly aid to fit in seals in water hydraulic systems	Reduces initial friction and prolongs seal life.
Berutox VPT 183 Alternatively Berutox VPT	Priming and run-in lubricant for radially segmented tyre moulds equipped with bronze sliding and Cr Va wear plates. Problem: permanent temp. of 200°C.	Prolong tank life (oil life) less maintenance and downtime, and less energy loss because of low coefficient of friction. Compared with mineral oils, Berusynth EP oils have superior oxidation stability thanks to which oil change intervals can be prolonged.
Berutox VPT 64 Fluid	Relubrication of radially segmented tyre moulds, to regenerate used grease.	Reach difficult accessible points of lubrication without the tyre moulds having to be dismantled.
Berusynth EP 220 Berusynth EP 460	For spur, bevel and above all worm gears. For all kinds of plain and roller bearings (circulating systems) for temp. up to +200°C .	Prolonged tank life (oil life), less maintenance and downtime, and less energy loss because of low coefficient of friction. Compared with mineral oils Berusynth EP oils have superior oxidation stability, thanks to which oil change can be prolonged.
Berugear GS BM	For heavy loaded gearboxes with damaged tooth flanks, i.e. rubber mixers, kneaders, etc.	Increased lifetime of tooth flanks. Restore of tooth flanks surfaces by micro flow process is possible.