

LUBCHEM KOREA / PROJECT SALES CORP

Textile Industry Specialty Lubrication Application Guide

Application-led selection for spinning, synthetic fibre, winding, weaving, dyeing, finishing and stenter equipment in India.

START WITH THE MACHINE

Tell PSC where the lubricant goes, what product is used now and what problem the mill is trying to solve. We map the lubrication point to documented LUBCHEM candidates for technical review.

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ENGINEERING APPROACH

A Textile Mill Is Not One Lubrication Application.

High-speed spindles, godet bearings, wet dyeing equipment, hot chains and gearbox drives work under very different conditions. Product selection begins with the point of use and its existing lubricant.

SEND PSC	WHY IT MATTERS
Machine OEM / model and process	Separates spinning, weaving, wet finishing and heat-setting duty.
Exact lubrication point and delivery method	Identifies bearing grease, circulation oil, chain oil or gearbox oil.
Current product and technical data sheet	Establishes chemistry, viscosity and approved replacement route.
Speed, load, bearing temperature	Screens grease and oil film requirements.
Water, steam, chemicals and fabric exposure	Checks resistance, contamination and staining risk.

SOURCE BASIS

Applications below are documented in LUBCHEM Korea's textile brochure dated December 2012. Confirm current grade, technical data, supply status and OEM requirement before specifying a replacement.

PROCESS MAP

From Fibre Preparation to Heat Setting.

The guide follows the mill process, while each selection remains specific to a component.

MACHINE AREA	TYPICAL POINTS	SOURCE PRODUCTS
Carding / ring / OE spinning	Plain bearings; drafting rollers; turbine bearings	DF 6102 · BL 6012 · PH 4101 · PH 4012
Synthetic filament	Godet bearings; filament coiling	HL 3091 · PF 8092 · PH 4012
Twisting / winding	Thread guides; spindle bearings; belt rollers	MP 6202 CR · PH 4012
Weaving	Loom gears; gripper; rapier roller; coupling	GM 120 S · GM 150 S · BH 6041 · BP 4012
Wet finishing	Washers; dyeing; steamers; pumps; calenders	PH 4052 · PH 4102 · PH 4101 · PF 8092 · GH S
Stenter / drying	Fan bearings; width adjustment; conveyor chains	HL 3032 L · HL 3043 · PF 8092 · GE 5500 MF · CM 320

COTTON SPINNING

Carders, Drawing Frames and Ring Spinning.

Contamination control and smooth high-speed operation matter as much as relubrication life.

LUBRICATION POINT	DOCUMENTED LUBCHEM GRADE	SELECTION REVIEW
Carder rotary plate / drawing-frame plain bearing	DF 6102	Source lists a polyglycol/lithium grease; confirm material and lubricant delivery.
Drawing-frame top / bottom roller bearing	BL 6012	Source lists an ester/lithium grease; check bearing speed and grease retention.
Ring-frame drafting roller bearings	PH 4101	Source lists mineral/barium-complex grease; inspect upper and lower roller duty separately.
OE spinning turbine bearing	PH 4012	Source lists PAO/ester, barium-complex grease; check turbine speed and bearing design.

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Spinning frame OEM; roller or turbine bearing number; operating speed and temperature; current grease; contamination incidents.

SYNTHETIC FIBRE

Godets and Filament Coiling.

Godet bearing temperature and filament cleanliness need careful grade selection and validation.

LUBRICATION POINT	DOCUMENTED LUBCHEM GRADE	SELECTION REVIEW
Godet bearing at lower source temperature band	HL 3091	Source pairs this ester/polyurea grease with godets; its comparison threshold must be verified with current OEM/TDS.
Godet bearing at higher source temperature band	PF 8092	PFPE/PTFE NLGI 2 in the source; review seals, fill and temperature.
Filament coiling bearing after drawing	PH 4012	Source cites high-speed lubrication and wear control; check actual bearing temperature.

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Godet OEM, shaft speed, measured bearing temperature, existing lubricant, product contamination and grease interval.

TWISTING AND WINDING

Guides, Spindles and Belt Rollers.

A sliding yarn guide and a rolling spindle bearing need distinct rheology and application methods.

LUBRICATION POINT	DOCUMENTED LUBCHEM GRADE	SELECTION REVIEW
Thread-guide slide / zigzag winding guide	MP 6202 CR	PAO/lithium NLGI 2 in specification table; review fabric contact and grease amount.
Spindle-can bearing / belt-guide roller	PH 4012	Source positions this synthetic grease for long lubrication in high-speed bearings.

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Twisting or winding model; guide materials; spindle speed; operating temperature; lubricant feed and stain tolerance.

WEAVING

Loom Gearboxes, Grippers and Rapier Guides.

The source separates synthetic gearbox oils from localized greases on vibrating loom mechanisms.

LUBRICATION POINT	DOCUMENTED LUBCHEM GRADE	SELECTION REVIEW
Weaving machine gearbox	GM 120 S	Source application; confirm this historical grade and ISO viscosity against current catalogue.
Jacquard machine gears	GM 150 S	PAO ISO VG 150 listed in specification table.
Gripper loom mechanism	BH 6041	Mineral/PAO lithium-complex grease in source; assess oscillation and vibration.
Motor coupling / rapier guide roller / distributor cutter	BP 4012	PAO barium-complex grease in source; check contact, speed and OEM requirement.

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Loom OEM and model; gearbox specification; existing oil chemistry; vibration, temperature and greased component.

GEAR OIL CHANGEOVER

PAO and PAG Require Separate Review.

The historical brochure describes PAO synthetic oils for spur and bevel gears and polyglycol options for sliding contacts such as worm gears. The actual choice depends on gearbox design and current chemistry.

CHEMISTRY / FAMILY	SOURCE APPLICATION	CHANGEOVER CHECK
GM S series / PAO	Spur and bevel gearboxes; named GM 120 S and GM 150 S in weaving section	Confirm viscosity, seals, paints, oil circuit and existing chemistry.
GH S series / PAG	Worm gear and other textile gear applications	Confirm flushing, seals, sight glass, coatings and mixing prohibition.
GE 5500 MF	Stenter width-adjustment spindle gear	Adhesive lubricant with solid lubricant in source; confirm open or semi-enclosed gear design.

NO DROP-IN ASSUMPTION

The source discusses PAO mixing with mineral oil in general terms, but equipment residues, additives, seals and approvals must be assessed for the specific conversion. PAG and mineral/PAO mixing requires particular attention.

WET FINISHING

Washing, Mercerising, Dyeing and Steamers.

Hot water, steam and treatment chemicals place additional demands on bearings, seals and chain lubricants.

LUBRICATION POINT	DOCUMENTED LUBCHEM GRADE	SELECTION REVIEW
Washer / merceriser / dyeing bearing	PH 4052	Source cites resistance to water, steam and process media; verify measured temperature.
Steamer inner ring protection	PH 4102	Historical source application; confirm exact lubricant point and current grade.
Steamer chain	CH 260 · CM 320 · CH 320 SUPER	High-temperature chain-oil options; review temperature, deposit formation and application rate.
Steamer bearing	PF 8092	PFPE/PTFE grease in source; verify bearing, seal and grease compatibility.

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Process equipment, media concentration, chain or bearing point, temperature, application system and current consumption.

FINISHING EQUIPMENT

Seals, Pumps, Calenders and Rotary Couplings.

The same finishing line may require a gasket lubricant, a pump bearing grease and an oil for heated calender bearings.

LUBRICATION POINT	DOCUMENTED LUBCHEM GRADE	SELECTION REVIEW
Dyeing / yarn-steamer gasket	PH 4052	Source application; rubber compatibility requires actual elastomer verification.
Washing-liquor circulation pump bearing	PH 4101	Source cites water and process-media resistance; assess seal-failure exposure.
Heated calender rolling / plain bearing	GH S series	Synthetic oil family in source; determine current viscosity and operating circuit.
Steam header / rotary coupling	HL 3043 · PF 8092	Different temperature options; check mechanical seal and media compatibility.
Hotflue compensator / roller	PF 8092	Source lists PFPE/PTFE grease for high-temperature service.

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Gasket or bearing material; media, pressure and temperature; current product; leakage or replacement history.

FABRIC TRANSPORT

Conveyor Chains in Finishing Lines.

Chain oil belongs on sliding chains; ball-bearing-supported chain rollers may require a bearing grease.

LUBRICATION POINT	DOCUMENTED LUBCHEM GRADE	SELECTION REVIEW
Fabric conveyor sliding chain	CM 320 · CH 320 SUPER	Source lists high-temperature synthetic chain oils; verify service temperature, drip and residue.
Conveyor chain supported by ball bearings	PF 8092	Source lists PFPE/PTFE bearing grease; check bearing fill and seal design.
Steamer chain	CH 260 · CM 320 · CH 320 SUPER	Select by actual chain construction, temperature and lubrication system.

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Line speed; chain construction; rail and roller design; operating temperature; drip or staining issues; lubricant consumption.

STENTER FRAMES

Hot Fans, Width Adjustment and Chain Drives.

Stenter and heat-setting points face sustained heat. An individual grease's temperature rating is not a substitute for bearing-life validation.

LUBRICATION POINT	DOCUMENTED LUBCHEM GRADE	SELECTION REVIEW
Motor / fan / exhaust-fan rolling bearing	HL 3032 L · HL 3043 · PF 8092	Source presents mineral/polyurea, ester/polyurea and PFPE/PTFE options for different heat duty.
Width adjustment spindle gear	GE 5500 MF	Source positions this adhesive solid-lubricant product for the gear point.
Hot chain and conveyor	CM 320 · CH 320 SUPER	Source lists synthetic chain oils in finishing section; review residues and fabric cleanliness.

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Stenter OEM; measured bearing and chain temperatures; fan speed; relubrication access; contamination and downtime history.

PLANT-WIDE SELECTOR

Documented LUBCHEM Candidates.

Use this abbreviated map to start an enquiry, then review the exact equipment and current product.

DUTY	SOURCE CANDIDATES	FORM / SELECTION ISSUE
High-speed bearings	PH 4012 · HL 3091	Grease; speed and temperature
Hot / steam-exposed bearing	PF 8092 · HL 3043 · PH 4052	Grease; media and compatibility
Sliding guide	MP 6202 CR	Grease; contamination and application amount
Weaving gearbox	GM 120 S · GM 150 S	Oil; viscosity and existing chemistry
Worm / textile gear	GH S series	Oil; PAG changeover
Hot finishing chain	CH 260 · CM 320 · CH 320 SUPER	Oil; heat, residues and fabric staining
Stenter adjustment gear	GE 5500 MF	Adhesive oil; gear enclosure and materials

SOURCE TYPOGRAPHY

Codes in the 2012 brochure have inconsistent family notation, including GM_S and GH_S. Verify the current full grade name before quoting.

TRIAL WORKFLOW

From Current Lubricant to Plant Trial.

A focused pilot can show whether a candidate addresses the mill's actual maintenance problem.

1. Identify the machine, component, OEM lubricant requirement and current grade.
2. Record the problem: bearing temperature, grease loss, chain deposits, staining, wear or change interval.
3. Obtain the candidate's current TDS and confirm chemistry, viscosity, service range and materials compatibility.
4. Agree cleaning or changeover procedure and application amount.
5. Establish baseline and monitor temperature, consumption, fabric cleanliness and component condition.
6. Review trial evidence before extending to other machines or lubrication points.

PRIORITY PILOTS

A stenter hot chain, a high-speed spinning bearing and a weaving gearbox are three distinct trials. Each needs its own operating data and acceptance criteria.

APPLICATION ENQUIRY

Show Us the Machine.

Send a nameplate or lubrication chart, the current lubricant label and photographs of the point. PSC can start from these even without a LUBCHEM code.

MACHINE / PROCESS	LUBRICATION / PERFORMANCE
Plant / location / machine OEM	Exact lubrication point and bearing or gear number
Spinning, weaving, dyeing, finishing or stenter	Existing brand, grade and TDS
Speed, load and measured temperature	Grease fill or oil volume; delivery and interval
Water, steam, chemicals or fabric exposure	Current issue, oil analysis or failure photographs
Machines in fleet / trial quantity	Required approval and acceptance test

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SOURCE AND SCOPE

Technical Basis and Limits.

Primary source: LUBCHEM Korea, textile-industry special lubricants and applications, December 2012, supplied as textilefinal(1).pdf. The brochure combines Korean descriptions with English application-point labels.

The source names ISOFLEX NBU 15 for one opening-roller point. That is a third-party product, so no LUBCHEM replacement is claimed here. The source also gives varying temperature and grade descriptions across its application and specification pages. This guide avoids treating historical claims as current specifications.

Verify product code, current availability, TDS, OEM requirement, material compatibility, temperature and lubrication method with LUBCHEM before a quotation or lubricant conversion. Reported maintenance intervals and energy-saving figures depend on the actual machine and have not been presented as guaranteed outcomes.

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