



# High Performance Lubricants for the Wood Working Industry

Application (Examples)	Products	Base Oil/Thickener	Base Oil Viscosity at 40 °C	Operating Temperature Range	Features and Benefits
<b>Bearings/Guides</b>					
Deflection roller bearing heated (laminating presses)	Turmotemp® LP 2502	PFPE/li-special soap	250 mm <sup>2</sup> /s	-30 °C up to +250 °C	Excellent wear and corrosion protection, thermally very stable, very good load carrying capacity, media-resistant.
Deflection roller bearing not heated	Turmogrease® HDC 2	Mineral oil/ca-sulfonate-complex soap	410 mm <sup>2</sup> /s	-30 °C up to +150 °C	Resistant to water and other media, thermally stable, enormously high load carrying capacity, very good corrosion protection, suitable for central lubrication systems.
Drum journal bearings in steel belt	Grizzlygrease® No.3	Mineral oil/li-ca-complex soap	1100 mm <sup>2</sup> /s	-20 °C up to +150 °C	Very high load carrying capacity, reduces friction at contact surfaces, resistant to corrosion and ageing-resistant.
Bearings in steel belt return and rolling rods infeed	Turmogrease® N 4602 plus	Synthetic oils/polyurea	460 mm <sup>2</sup> /s	-30 °C up to +180 °C	Resistant to pressure, temperature-resistant, excellent protection against wear and corrosion, very media-resistant.
	Turmotemp® II/400 KL 1	PFPE/PTFE	400 mm <sup>2</sup> /s	-30 °C up to +260 °C	High oxidation and media resistance, offers optimum wear protection.
Press frame (side guides)	Turmopast TAS WT*	SHC/inorganic thickener	--	-30 °C up to +1400 °C	Provides excellent lubricating and separation properties even at high surface pressure, protects against (fretting) corrosion, dry lubrication starting at 200 °C.
Bearings (idle roller, drive roller, feeding roller)	Turmotemp II/400 RS 2 Y	PFPE/PTFE	550 mm <sup>2</sup> /s	-30 °C up to +300 °C	High temperature grease with high pressure stability and chemical resistance.
Rotary unit	Turmotemp LP 5002	PFPE/li-special soap	500 mm <sup>2</sup> /s	-30 °C up to +250 °C	High temperature special grease with high load-carrying capacity, media-resistant.
Special greases for roller bearings	Sintono® GPE 703	Ester/polyurea	70 mm <sup>2</sup> /s	-40 °C up to +200 °C	Media-resistant grease for extreme applications and long service life.
	Sintono® Mega 2	PFPE/polyurea	500 mm <sup>2</sup> /s	-30 °C up to +260 °C	High-temperature grease for all types of bearings, e.g. bearings in the glue roller.
Ball screw, roller bearing, support chain bearing	Thermoplex® 2 TML	Ester/li-soap	55 mm <sup>2</sup> /s	-30 °C up to +160 °C	Fully synthetic grease for high loads and long service life, good friction coefficient.
Roller bearings/spindle bearings at high speeds	Thermoplex® 2 TML spezial	Ester/li-soap	18.5 mm <sup>2</sup> /s	-70 °C up to +130 °C	High-performance grease for high speeds and low temperatures.
Linear guides, ball screw	Thermoplex® ALN 1001/00	SHC/polyurea-al-special soap	100 mm <sup>2</sup> /s	-40 °C up to +150 °C	Ageing-resistant special grease for a broad operating temperature range, also for gears.
Linear guides (ball bearing)	Thermoplex® LC 302 EP	Ester/li-ca soap	30 mm <sup>2</sup> /s	-50 °C up to +150 °C	Special grease for high loads and high speeds, very good media resistance.
Spindle bearings at high speeds	Turmogrease® Highspeed L 252	SHC, ester/li-special soap	25 mm <sup>2</sup> /s	-50 °C up to +120 °C	Special grease for high speed spindle bearings, extremely ageing-resistant.
Roller bearings at high speeds	Turmogrease® L 802 EP plus	SHC, mineral oil/li-special soap	85 mm <sup>2</sup> /s	-35 °C up to +140 °C	Universal grease with high pressure stability, vibration and ageing resistance, e.g. for the application in bearings at transport rolls/overhead conveyors.
Bearings (e.g. glue roller) at high temperatures	Turmsilon® grease mittel TF	Silicone oil/polyurea, PTFE	200 mm <sup>2</sup> /s	-40 °C up to +230 °C	Silicone grease for low and high temperatures with high water resistance.
Guides, pneumatic cylinder, roller bearings	Turmopast® NBI 2 weiss*	Mineral oil/ca-complex	100 mm <sup>2</sup> /s	-30 °C up to +150 °C	Universal lubricating paste against friction and fretting corrosion, prevents dust adhesion, e.g. for grinding machines.
	Turmopast® TF*	PTFE/bonded-coating	--	-180 °C up to +260 °C	Quickly drying sliding agent, prevents dust adhesion, e.g. for the application in grinding machines or CNC processing.
Sliding guides	Grizzlygrease® No. 1*	Mineral oil/li-ca-special	800 mm <sup>2</sup> /s	-30 °C up to +150 °C	Adhesive grease without solid lubricants, high pressure stability, e.g. for sliding guides in double-belt presses.
Disc springs/chuck	Turmogrease® DF 30	SHC/li-special soap	125 mm <sup>2</sup> /s	-40 °C up to 120 °C	Damping grease to improve the efficiency of disc springs, rapiers and chucks, reduces noise and vibrations.
<b>Chains/Rollers</b>					
Conveyor belt (pressure pads)	Turmsilon K 350 WR	Silicone oil	about 290 mm <sup>2</sup> /s	--	Ageing-resistant high-temperature silicone oil with maximum pressure stability.
Chain and bending rods	Turmowood®oil 2	Ester	about. 58 mm <sup>2</sup> /s	-30°C up to +250°C	Free of environmentally harmful heavy metals, safe and cost-efficient lubrication/cleaning at high operating temperatures.
Steelbelt/bending rods carpet	Turmowood®oil 1	Ester, SHC	250 mm <sup>2</sup> /s	up to + 250 °C	Outstanding viscosity and temperature behaviour, very adhesive, synthetic lubricant, clearly minimises deposit and smoke formation, even at high temperatures.
Drive chain/conveyor chain	Turmofluid® 460	Mineral oil	460 mm <sup>2</sup> /s	-20 °C up to +140 °C	Oil for chains, closed gears, roller and plain bearings.
	Turmofluid® 40 B*	Ester, SHC	270 mm <sup>2</sup> /s	-40 °C up to +300 °C	Fully synthetic, ageing-resistant chain oil, extremely adhesive.
	Turmofluid® 300 OM*	Synthetic	3750 mm <sup>2</sup> /s	-5 °C up to +240 °C	Adhesive lubricating oil for open drives and chains, ageing-resistant, good pressure stability.
Drive chain/conveyor chain, support surface	LUBCON® 4S-Fluid*	SHC, PTFE	80 mm <sup>2</sup> /s	-50 °C up to +150 °C	Universal penetrating oil for the lubrication and protection of different surfaces. It protects against corrosion due to its adhesive properties.
Sliding guides and rails, drive chain/conveyor chain	Turmofluid® ED 13*	Synthetic	20 mm <sup>2</sup> /s	-45 °C up to +150 °C	Low viscosity oil with good penetrating properties, also suitable for fine mechanics.
<b>Gears</b>					
Drilling and milling heads at high speeds	Turmogrease® Highspeed L 250 ASL	SHC, ester/li-special	25 mm <sup>2</sup> /s	-40 °C up to +120 °C	Special grease for helical gearing, optimum surface adhesion, low friction coefficient.
	Turmogrease® Highspeed L 251	PAO, ester/li-special	25 mm <sup>2</sup> /s	-40 °C up to +120 °C	Grease for high-speed bearings and helical gears.
Open gears in drilling units	Turmogear® oil PE-Series	Ester/SHC	see datasheet	see datasheet	Oil with good wear and corrosion protection for gears, bearings and chains.
	Turmopol®grease 00	Polyglycol/li-soap	220 mm <sup>2</sup> /s	-40 °C up to +130 °C	Gear grease for high loads, very ageing-resistant.
<b>Hydraulic Systems</b>					
Universal hydraulic oils	Turmofluid® HLP 46	Mineral oil	44.0 mm <sup>2</sup> /s	--	Hydraulic oils according to DIN 51524, ageing-resistant, protect against corrosion and wear even under extreme conditions.
	Turmofluid® HLP 68	Mineral oil	69.0 mm <sup>2</sup> /s	--	
<b>Maintenance</b>					
Cleaner for carpet chains	Turmowood®oil MKP Cleaner	Ester	about 100 mm <sup>2</sup> /s	up to zu + 250 °C	Manually applied cleaning fluid: good spreading properties, dissolves old deposits at the friction points and protects excellently against wear.
Cleaner	Bio Aktiv V 101	--	--	--	Water-soluble, features an excellent cleaning effect.
Assembly paste	Turmopast® TAS FM	Synthetic oil/inorganic	200 mm <sup>2</sup> /s	-40 °C up to +1200 °C	Multipurpose, metal-free assembly paste for high temperature applications.
Release agent	Turmofluid® HYM 1*	Synthetic/ --	46 mm <sup>2</sup> /s	-30 °C up to +220 °C	Silicon-free release agent, successfully prevents sticking of adhesives and glues.

\*also available as aerosol

**Abbreviations:**  
 al: aluminium  
 ca: calcium  
 li: lithium  
 PFPE: perfluorpolyether  
 PTFE: polytetrafluorethylene  
 SHC: synthetic hydrocarbons



Your application is not mentioned?  
 Contact us! Your LUBCON application engineer will help you to choose the right lubricant and provide on-side support!



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