LUBCON Lubricating Greases for all Application Areas

- **THERMOPLEX® 2 TML**
  Special grease for highspeed rolling bearings in textile machines and machine tools as well as electric motors. In critical bearing situations exposed to high loads, independent to low or high running requirements.

- **TURMOGREASE® Highspeed L 252**
  Universal grease for highspeed rolling bearings. Application in spindle bearings of machine tools, as e. g. grinding, milling and motor spindle units as well as in spindle and cylindrical bearings of a bore size below d = 100 mm of the inner ring.

- **TURMOGREASE® N 503 B**
  For long-term and permanent lubrication of roller and sliding bearings in all branches of the machine building industry, automotive industry and in wet tooling machines as well as pumps, wash and cleaning machines, especially capsulated bearings, lubrication of spindle bearings for milling resp. machine tools.

- **TURMOGREASE® PU 703**
  For roller and sliding bearings from medium to high speeds in all areas, where high-performance lubricants are required. Universal application, also in electric motors (insulation class F).

- **TURMOGREASE® LC 802 EP**
  High-load, highspeed and high-temperature lubricating grease for roller and sliding bearings, subject to different requirements and loads. Spindle bearings, E-motors, axle bearings and cardan joints.

- **TURMOGREASE® PHS 1002**
  For long-term and permanent lubrication of roller and sliding bearings in all branches of the machine building industry, automotive industry and in wet tooling machines as well as pumps, wash and cleaning machines, especially capsulated bearings, fan and electric motor bearings in all industrial areas.

- **TURMOGREASE® BIO LC 1302**
  Quickly biodegradable special grease for long-term and life-time lubrication.

- **TURMOGREASE® N 4602**
  For roller and sliding bearings in industrial plants, inclusive bearings subject to threshold and shock load: machine building, textile industry bearings for drafting equipment (upper and lower rollers), wet tooling machines, washing machines, dyeing plants, electric motors of the textile, wood and paper industry.

- **SINTONO® MEGA 2**
  Application for general lubrication of roller bearings, as well as for thermally high-loaded chain reversing wheels, drum-type bearings, roller lubrication in foil stretching plants and textile stenters, low-running electric motors up to $n \cdot d_m$ 300 000. Also for long-term lubrication of rollers in conveyor plants. Replaces PFPE/PTFE pastes.

- **TURMO®PLEX L 220**
  Suitable for high-loaded radial sliding or roller bearings with a reference diameter of > 300 mm. Application in cement, steel and iron industry for joints, support rollers, excavators, roll stand bearings, vibratory, pressure and mill bearings.

- **TURMO®SYNTHGREASE ALN 1002**
  Foodgrade lubricating grease with NSF H1-registration for the lubrication of roller and sliding bearings.

Survey of Lubricating Greases

This brochure only contains product information. For specific information please refer to our technical data and safety data sheets. The indications made represent the present state of development and knowledge of **LUBRICANT CONSULT GMBH**. Subject to change. The products are subject to severe controls of manufacture and comply in full with the specifications set forth by our company, but due to the multitude of different influencing factors, we cannot assume any warranty for the successful application in each individual case. Therefore, we recommend to perform field tests. We strictly refuse any liability.

High-performance Greases for the Lubrication of Bearings

- **Guaranteed constant quality of our products due to our own Quality- and Environmental Management**
- **Product range for general and special requirements**
- **International standardization of LUBCON grease test methods and equipment**
- **Worldwide product availability through the LUBCON distributor network**
- **Convenient for the application in**
  LUBCON TURMOLUBE Single-Point Lubricator
  LUBCON MicroMax 120, DuoMax 160 + QuattroMax 30 Lubricator

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Selection of Basic Lubricating Greases

Technical Information

Temp.	Speed	Load	Recommended LUBCON greases	Product description	Main product features	Colour/ Appearance	Service temperature range	Thickener/ Base oil	Density (*1)	Base oil viscosity (*2)
H	SH	H	**THERMOPLEX 2 TML**	Special grease for high-speed rolling bearings	low self-heating tendency in high speed bearings, favourable coefficient of friction in rolling bearings, suitable for life time lubrication	beige	-35 °C ... +160 °C	Li soap	0.98	55
L+M	VH	M	**TURMOGREASE® Highspeed L 252**	Special grease for high-speed spindle bearings	favourable friction behaviour, compatible with NBR, FKM, PTFE and PA 6.6, universal grease for high-speed rolling bearings	brownish, beige/ pasty, homogeneous	-50 °C ... +120 °C	Li special soap/ PAO/Ester	0.94	25
H	VH	L+M	**TURMOGREASE® N 503 B**	Special grease with multi-purpose application possibilities	fully synthetic, silicone-free, for high temperatures, at influences of cold/hot water as well as steam, aqueous alkaline or acid cleaning or washing media resp. its vapours corresponding to DIN 51807, good compatibility towards elastomers like NBR/FKM/Viton	yellowish/ homogeneous	-40 °C ... +160 °C	PHS/ PAO/Ester	0.855	55
H	VH	L+M	**TURMOGREASE® PU 703**	Special bearing grease for long-term lubrication	noise reduced, chemically stable, for medium up to high speeds, for high and low temperatures	lightbeige to yellowish/ homogeneous	-40 °C ... +180 °C	PHS/ Ester oil	1.0	70
M+H	M	H	**TURMOGREASE® LC 802 EP**	Lubricating grease for high-load, high-speed and high-temperature application	additives to optimize the lubricant properties like corrosion, nonferrous heavy metal and anti-ageing protection, resistance of the lubricating film resp. high and low temperature behaviour	beige/ smooth, homogeneous	-35 °C ... +140 °C	Li-Ca soap/synth. hydrocarbon/ mineral oil	0.91	82
H	M+H	L	**TURMOGREASE® PHS 1002**	Noise-proved special grease with multi-purpose application possibilities	partly synthetic, silicone-free, for high temperatures, at influences of cold/hot water as well as steam, aqueous alkaline or acid cleaning or washing media resp. its vapours corresponding to DIN 51807	yellowish	-40 °C ... +160 °C	PHS/ synthetic	0.87	105
M	L	L	**TURMOGREASE® BIO LC 1302**	Quickly biodegradable special grease	long-term and life-time lubrication, quickly biodegradable	yellowish-beige/ pasty	-30 °C ... +120 °C	Li-Ca soap/ Ester	0.95	130
H	L+M	H	**TURMOGREASE® N 4602**	Synthetic long-term lubricating grease for high temperatures	resistant to cold and hot water, high pressure stability, e. g. load carrying capacity, very good wear protection, miscible with all soaps and organic thickened lubricating greases, excellent corrosion protection	beige	-30 °C ... +180 °C	PHS/ PAO/Ester	0.87	460
VH	M	VH	**SINTONO® MEGA 2**	Special grease for high-load and high-temperature applications	high thermal resistance, up to +260 °C, high pressure resistance, good resistance to media, miscible with other lubricating greases	lightbeige to light redish/creamy, homogeneous	-30 °C ... +260 °C	PU/ PFPE	1.7	500
M	L	VH	**TURMO®PLEX L 220**	Special lubricating grease for high-loaded, slow-running roller and sliding bearings	good emergency running properties, very good water resistance and wear/corrosion protection, optimal resistance of lubricating film, excellent work stability with high sealing behaviour, neutral towards metals, elastomers/plastics, elongation of lubrication intervals, reduced maintenance costs	brown/ homogeneous, tacky	-15 °C ... +130 °C	Li-12-Oxystearat/ mineral oil	0.91	1295
M+H	L+M	M	**TURMO®SYNTHGREASE ALN 1002**	Foodgrade grease with NSF H1 approval	NSF registered H1 product, high thermal and oxidation stability, high affinity towards metal, high load carrying capacity, high service life, wide service temperature range, high lubricating effect at low friction values, good wear protection	beige	-40 °C ... +160 °C	Al complex soap/ PAO	0.89	250

$n \cdot d_m$ = rotational speed, r/min · 0,5 (D + d), mm;
***1 = density g/cm³ at +20 °C;**
***2 = base oil viscosity mm²/s at +40 °C**

Selection parameters:

Temperature

L = low	up to +80 °C
M = medium	up to +120 °C
H = high	up to +180 °C
VH = very high	> +180 °C

Speed factor for ball bearings

L = slowly	$n \cdot d_m$ up to	100.000
M = medium	$n \cdot d_m$ up to	300.000
H = high	$n \cdot d_m$ up to	1 000.000
VH = very high	$n \cdot d_m$	> 1 000.000

Speed factor for roller bearings

L = slowly	$n \cdot d_m$ up to	50.000
M = medium	$n \cdot d_m$ up to	100.000
H = high	$n \cdot d_m$ up to	150.000
VH = very high	$n \cdot d_m$	> 150.000

Load

L = low	C/P > 10
M = medium	C/P = 5-10
H = high	C/P = 2-5
VH = very high	C/P < 2