

# Grease lubrication

## Frequently used greases

Manufacturer Designation	Thickener	Base oil	Density at 20°C [g/ml]	GMN density group	Consistence class DIN 51818 [NLGI]	Kinematic viscosity of base oil DIN 515 [mm <sup>2</sup> /s]		Operational temperature range [°C]	n · d <sub>m</sub> [mm/min]	Comments on application
						40°C	100°C			
LUBCON TURMOGREASE Highspeed L 252 (GMN-Code: T274)	Special Lithium	Ester + synth. hydrocarbon	0.94	II	2/3	25	6	-40 to +120	2 200 000	High speed grease; very good wear protection; especially suitable for hybrid bearings with ceramic balls; good corrosion protection; for bearing diameters d ≥ 30 mm; standard grease in KH bearings
LUBCON TURMOGREASE Highspeed L 182 (GMN-Code: T272)	Special Lithium	Ester + synth. hydrocarbon	0.94	II	2	18	4.5	-70 to +120	2 500 000	High speed grease; very good wear protection; especially suitable for hybrid bearings with ceramic balls; good corrosion protection; where low viscosity is required
LUBCON TURMOGREASE Li 802 EP (GMN-Code: T286)	Lithium	synth. hydrocarbon + mineral oil	0.87	0	2	82	12.5	-35 to +140	1 000 000	Resistant to corrosion and aging; compatible with non-ferrous metals; good pressure absorption; good long-term stability; low noise
LUBCON TURMOGREASE PU 703 (GMN-Code: T284)	Polyurea	Ester	1.0	III	3	70	10.7	-40 to +180	1 300 000	High temperatures; good protection against corrosion and aging; compatible with elastomers such as FKM/Viton
KLÜBER ASONIC GLY 32 (GMN-Code: T176)	Lithium	Ester + synth. hydrocarbon	0.94	II	2	25	5	-50 to +140	1 000 000	Suitable for low temperatures; low noise; low frictional moment; standard grease in shielded deep groove ball bearings
KLÜBER ISOFLEX NCA 15 (GMN-Code: T249)	Special calcium	Ester + mineral oil	0.94	II	2	23	4.7	-50 to +120	1 300 000	Very good wear protection; very low frictional moment; especially suitable for hybrid bearings with ceramic balls; good corrosion protection; good resistance to water and media; resistant to aging and oxidation

## Grease-lubricated GMN ball bearings

All GMN high precision ball bearings are available greased.

The standard fill volume is 30% (tolerance ±5%) of the free space.

A fill volume of 20–25% is recommended for smooth running.

Long service life is achieved with a 35% grease fill volume.

Bearings without grease are delivered with standard conservation.

The standard grease volume for series KH bearings is 25% (LUBCON TURMOGREASE Highspeed L 252).

Deep groove ball bearings are given a standard grease volume of 30% (KLÜBER ASONIC GLY 32).

Other greases are available on request.

Detailed information about specific grease volume for individual bearing types: [www.gmn.de](http://www.gmn.de)