KLÜBER LUBRICATION

# Klüber Railway Products

Klüber lubricants for railways

Lubrication is our World

# Long-term lubrication excellence

The Klüber product range covers all railway applications from door locks to the current collector. Our field-proven high-performance special lubricants reduce wear, extend maintenance intervals and support environmental protection. Ecology and economy in equilibrium.

| Component | Lubrication point | | Klüber special lubricants |
|---|---|---|---|
| **Bogies** | Traction motor rolling bearing | T < 100 °C<br>n x dm < 400,000 | Klüberplex BEM 41-132 |
| | | T < 100 °C<br>n x dm < 600,000 | ISOFLEX TOPAS L 152 |
| | | T > 100 °C<br>n x dm < 500,000 | Klübersynth HB 72-102 |
| | | T > 100 °C<br>n x dm < 700,000 | Klüberquiet BQH 72-102 |
| | Gears | closed | Klübersynth GE 4 75 W 90 |
| | | | SYNTHESO D 220 EP |
| | | | Klübersynth GH 6-220 |
| | | rapidly bio-degradable | Klübersynth GEM 2-220 |
| | | open | GRAFLOSCON A-G 1 ULTRA |
| | | | GRAFLOSCON CA ULTRA Spray |
| | Cardan shaft | | Klüberplex BEM 41-132 |
| | Curved gear coupling | oil lubrication | STRUCTOVIS BHD MF |
| | | oil lubrication | Klüberoil GEM 1-460 N |
| | | grease lubrication | GRAFLOSCON C-SG 500 PLUS |
| | | grease lubrication | Klüberplex GE 11-680 |
| | | grease lubrication | Klüberlub BE 41-1501 |
| | Elastic coupling | | SYNTHESO D 100 EP |
| | Screws and pins | | STABURAGS NBU 30 PTM |
| | | | ALTEMP Q NB 50 |
| | Slewing ring | rolling bearing | ISOFLEX TOPAS NB 52 |
| | | slide rings / emer-gency lubricat. film | Klüberplast LD |
| **Wheels** | Axlebox bearing | normal speed | Klüberplex BEM 41-132 |
| | | | Klübersynth BEM 44-92 |
| | | high speed | ISOFLEX TOPAS NCA 52 |
| | Wheel bearing housing | screws of bearing seat | STABURAGS NBU 30 PTM |
| | | | ALTEMP Q NB 50 |
| **Brakes** | Spring-loaded caliper | outside | STABURAGS NBU 30 PTM |
| | | inside | CENTOPLEX 1 DL |
| | Slack adjuster | | CENTOPLEX 1 DL |

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|---|---|---|---|
| **Buffers** | Buffer head | | Klüberbio M 72-82 |
| **Couplings** | Screw couplings | | Klüberbio M 72-82 |
| | Automatic couplings | | ISOLFEX TOPAS NCA 52 |
| | Electric contacts | | KONTASYNTH BA 100 Spray |
| **Tilting technology** | Gears | | Klübersynth GH 6-80 |
| | Planetary rolling spindle | | Klübersynth GH 6-80 |
| | Bearings | | Klüberplex BEM 34-132 |
| **Doors** | Guideways, hinged parts, guide rollers | | ISOFLEX TOPAS NB 52 |
| | Drive spindle | | ISOFLEX LDS 18 SPEZIAL A |
| | Door lock | | QUIETSCH-EX |
| | Door rubber seals | EPDM seals | UNISILKON GLK 112 |
| | | Silicone seals, low temperatures | BARRIERTA L 25 DL |
| **Air compressors** | Piston compressors | | Klüber Summit DSL 68/100/125 |
| | Screw compressors | | Klüber Summit SH 32 / 46 |
| **Points** | Switch plates | rapidly bio-degradable | Klüberrail AL 32-2000 |
| | | | Klüberbio ALO 32-4000 |
| | Switch locks | | Klüberlub BEM 41-122 |
| | | | STABURAGS NBU 30 PTM |
| **Signals** | Contacts | | ISOFLEX LDS 18 SPEZIAL A |
| | | | KONTASYNTH BA 100 Spray |
| **Escalators** | Worm gears | | SYNTHESO D 460 EP |
| | | | Klübersynth GEM 4-220 N |
| | Spur gears | | SYNTHESO D 220 EP |
| | Drive chains | | Klüberoil GEM 1-220 N |
| | | rapidly bio-degradable | Klüberbio CA 2-100 |
| | | | Klüberbio C 2-46 |
| **Current collectors** | Ball bearings | | Klüberplex BEM 34-132 |
| | Needle bearings | | ISOFLEX TOPAS NCA 52 |
| **Contact line** | Current disconnectors | | ISOFLEX LDS 18 SPEZIAL A |
| | Rust remover | | Klüberbio Z 2-5 |
| **Diesel engines** | Screws in turbocharger | | Klüberpaste HEL 46-450 |

Publisher and design:
Klüber Lubrication München KG

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2.421 e
Edition 08.06,
replaces edition 03.98

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Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this technical brochure at any time without notice.