THERMAL-LUBE

SYNTHETIC SLOW-MELTING GREASE

XL0700

July 2026

XL0700 is a hybrid synthetic grease based on calcium sulphonate and inorganic thickeners.

XL0700 is characterized by its exceptional mechanical stability; withstands high loads, is stable at high temperatures and has excellent resistance to water, oxidation, and corrosion.

XL0700 grease achieves extraordinary performance over wide temperature ranges.

TYPICAL APPLICATIONS:

- Bearings exposed to high temperatures
- Bearings exposed to low temperatures
- Bearings exposed to water
- Bearings operating at low or high RPM
- Calendar rolls
- Gear boxes
- Roller bearings
- Heavy machinery
- Industrial equipment in adverse environments under heavy loads
- Electric motors
- Rotary joints
- Crusher bearings
- Wire rope

TYPICAL SPECIFICATIONS								
Product Code: XL0700	**/180**	**/000**	**/001**	**/002**	**/046**	**/015**	**/202**	**/220**
N.L.G.I. Grade:	00	0	1	1.5	1.5	2	2	2
Penetration (after 60 strokes) @ 25°C (ASTM D217)	410	420	310	303	275	275	270	275
Drop Point (°C) (ASTM D2265)	270	270	300	300	300	300	300	300
Timken OK Charge (kg) (ASTM D2509)	N/A	N/A	27	27	27	27	27	27
Oil Separation (24hrs @ 25°C) (ASTM D1742)	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Temperature Range (°C)	-15 to 220	-20 to 180	-20 to 220	-20 to 220	-35 to 220	-15 to 220	-10 to 230	-5 to 240
Minimum distribution temperature (°C)	-40	-15	-60	-60	N/A	-40	-25	-25
Base Oil Viscosity (cSt @ 40°C @ 100°C) (ASTM D445)	178 16.5	1100 11	140 14	98 11.3	43.8 7.1	220 21.5	250 27	226 22.5

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Product Code: XL0700	**/180**	**/000**	**/001**	**/002**	**/046**	**/015**	**/202**	**/220**
Additives	EP, AW, R&O							
Roll stability penetration (ASTM D1831)	+19	<3.0	+19	+19	+19	+19	+19	+19
4-Ball wear test m/m scar, 40kg, 1200rpm, 75°C, 1h ASTM D2266	0.39	0.5	0.38	0.32	0.39	0.32	0.32	0.32
Soldering point EP 4 balls (ASTM D2596)	500	N/A	500	500	500	500	500	500
Rust test (48hrs @ 52°C) (ASTM D1743)	1,1,1	Pass	1,1,1	1,1,1	1,1,1	1,1,1	1,1,1	1,1,1
Water washing @ 79°C (% loss) (ASTM D1264)	3.0	<1.0	2.75	2.75	2.5	2.5	2.5	2.5
Oxidation stability (ASTM D942) @ 100 hrs	<1							
Color	Brown/Beige							

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