

# TECHNICAL DATA

Further information on our products and support in the selection of lubricants for various applications can be found in the LUKOIL lubricant advisor at [www.lukoil-lubricants.eu](http://www.lukoil-lubricants.eu). Our team will be happy to support you with technical questions and concerns at [www.lukhelp.com](http://www.lukhelp.com).

	Unit	Standard	LUKOIL SIGNUM AX 1	LUKOIL SIGNUM CSXP 2-220	LUKOIL SIGNUM C 2-100	LUKOIL SIGNUM SYNTH LXP 2-220	LUKOIL SIGNUM LXP 2-220	LUKOIL SIGNUM M284	LU SIG M
Product number			589572	589540	589750	589530	589525	589760	58
NLGI class		DIN 51818	1-2	2	2	2	2	2	
Colour			white	red	light brown	amber	blue	amber	ar
Dropping point	°C	ISO 2176	250	330	96	290	265	270	
Solid lubricant			TiO <sub>2</sub>	---	---	---	---	---	
Base oil			mineral	mineral	mineral	PAO	mineral	mineral	m
Base oil viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	220	220	100	220	220	120	
4-ball test; weld load	N	ASTM D2596	1300	4000	2600	3000	3000	2600	2
4-ball test; calotte diameter	mm	ASTM D2266	0.91	0.40	0.72	0.46	0.51	0.58	0
Speed index	dn (mm/min)	DIN 51821	200,000	250,000	500,000	500,000	400,000	400,000	40
Copper corrosion	Level	ASTM D4048	-	1a	-	1a	1b	1	
Worked penetration	1/10 mm	ISO 2137	280-310	265-295	265-295	265-295	265-295	265-295	26
Temperature range	from °C		-30	-20	-30	-40	-30	-40	
	to °C		190	180	60	180	160	160	
Abbreviation		DIN 51825	KP 1 R-30	KP 2 R-20	K 2 C-30	KPHC 2 R-40	KP 2 P-30	KP 2 P-40	KP
Abbreviation		ISO 6743-9	L-XCGHB1	L-XBFHB2	L-XCAHA2	L-XDFEB2	L-XCEHB2	L-XDEEB2	L-X
Thickener			Aluminium complex	Calcium sulfonate complex	Calcium	Lithium complex	Lithium complex	Lithium complex	Lit

**Legal Notice:** The information contained may be amended without prior notice. This table only provides an overview of the product specifications. You can find detailed **Product & Technical Service details:** [www.lukhelp.com](http://www.lukhelp.com)



LUKOIL SERVICES

LUKOIL SIGNUM L283	LUKOIL SIGNUM EPC 00	LUKOIL SIGNUM LPM 2-160	LUKOIL SIGNUM LP 00-150	LUKOIL SIGNUM LP 1-150	LUKOIL SIGNUM LP 2-150	LUKOIL SIGNUM LP 3-150	LUKOIL SIGNUM EPC 000 320	LUKOIL SIGNUM L 2-150	LUKOIL SIGNUM BIO LP 2-320
589770	589780	589515	589510	589511	589512	589513	589785	589508	589545
2	00/000	2	00	1	2	3	00/000	2	2
amber	beige brown	black	amber	amber	amber	amber	beige brown	amber	light brown
190	180	195	201	204	204	207	185	195	202
---	---	MoS <sub>2</sub>	---	---	---	---	---	---	---
mineral	mineral	mineral	mineral	mineral	mineral	mineral	mineral	mineral	synthetic ester
188	40	160	150	150	150	150	320	150	320
800	2000	4000	3000	3000	3000	3000	2200	1500	3000
0.53	0.68	0.45	0.55	0.50	0.50	0.50	0.69	0.77	0.55
10,000	800,000	400,000	400,000	400,000	400,000	350,000	100,000	400,000	300,000
1	1	1a	1a	1a	1a	1a	-	1b	1b
5-295	435-450	265-295	400-430	310-340	265-295	220-250	425-435	265-295	265-295
-30	-40	-30	-30	-30	-30	-30	-20	-30	-35
130	120	130	130	130	130	130	120	130	130
2 K-30	GP 00/000 K-40	KPF 2 N-30	KPG 00 N-30	KP 1 N-30	KP 2 N-30	KP 3 N-30	GP 00/000 K-20	K 2 N-30	KPE 2 N-35
XCEB2	L-XDCEB00	L-XCEHB2	L-XCDEB00	L-XCDEB1	L-XCDEB2	L-XCDEB3	L-XBCEB000	L-XCDEA2	L-XCCEB2
lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium

Information on approvals and specifications in the technical data sheets ([www.lukdocs.com](http://www.lukdocs.com)).

**LUKOIL SIGNUM AX 1** Prod.-No.: 589572



**APPLICATION** (DIN 51825 - KP 1 R-30; ISO 6743-9 L-XCGHB1)

**LUKOIL SIGNUM AX 1** is a special grease which can be used for lubricating points on vehicles, construction and agricultural equipment, industrial systems, as gear grease for electric hand tools and for lubricating points in steel and hydraulic engineering that come into contact with water. Application temperature from -30 to +190°C.



**PROPERTIES**

**EFFECTIVE CORROSION PROTECTION**

*Minimises corrosion and the resulting wear*

**SALT WATER RESISTANCE**

*Optimum component protection in wet environment*

**HIGH OXIDATION RESISTANCE**

*Extends lubricant life and reduces maintenance and procurement costs*

**CHEMICAL RESISTANCE**

*Resistant in acidic and basic environment*

**EXCELLENT ADHESION**

*Water displacement function and reliable protection of the components*

