

Supplier approval

01 751 31 04
63085461.31



SEW drives of the series

R../ K.7/ F../ K.9/ S../ HS../ W.0/ HW.0/ W.9HG/ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7

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EN Page 1/34

EGT-TD 13.02.2026

Change information:

Chap. /page	Description (changes to the preceding edition)	Modification no.
p. 8	Addition: Lubricant-specific information "SPC" for: - SEW GearOil Poly 150 H1 E1 - SEW GearOil Poly 220 H1 E1 - SEW GearOil Poly 460 H1 E1 - SEW GearFluid Poly 220 H1 E1	251324
2.1 / 11	Other approved lubricants: Aveno Gear Ultimate FLD and Ravenol Synthetic Wind Turbines SWT	
13 / 28	PS.C-gear unit: Extension CLP oils with PSS (VG220)	
16 / 33	Title changed: "Hoist drives" in "Hoist gear units"	

Supplier approval

01 751 31 04
63085461.31



SEW drives of the series

R../ K.7/ F../ K.9/ S../ HS../ W.0/ HW.0/ W.9HG/ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7

Lubricant approvals – latest version at: www.sew-eurodrive.de/lubricants

EN Page 2/34

EGT-TD 13.02.2026

Table of contents

1.	Introduction / area of application	3
1.1.	Explanation of the structure of the tables and abbreviations	3
1.2.	Details regarding the various lubricants	5
1.3.	Lubricant change intervals	5
1.4.	Compatibility of lubricants with oil seals	6
2.	Helical gear units (R.), helical-bevel gear units (K.7), parallel-shaft helical gear units (F.7)	7
2.1.	Other approved lubricants	11
3.	Parallel-shaft helical gear units (F0.)	12
4.	Parallel-shaft helical gear units (FL.9)	14
5.	Helical-bevel gear units (K.9)	15
6.	Helical-worm gear units (S., HS.)	17
7.	Helical-worm gear units (S.7p)	22
8.	SPIROPLAN® gear units (W.0, HW.0, W.9HG)	23
9.	SPIROPLAN® gear units (W02-03)	24
10.	SPIROPLAN® gear units (W.9)	25
11.	PxG gear units	26
12.	PS.F gear units	27
13.	PS.C gear units	28
14.	BS.F gear units	29
15.	MGF gear units (MGF..-B, MGF..-C, MGF..-DSM, MGF../PG)	30
16.	Hoist gear units (G.7)	33
17.	Cycloidal gear units (Z..)	34

Supplier approval

01 751 31 04
63085461.31



SEW drives of the series

R../K.7/ F../K.9/ S../HS../W.0/ HW.0/ W.9HG/ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7

Lubricant approvals – latest version at: www.sew-eurodrive.de/lubricants

EN Page 3/34
EGT-TD 13.02.2026

1. Introduction / area of application

This document describes the approved/recommended lubricants for SEW-EURODRIVE gear unit series. The approvals/recommendations are valid worldwide.

SEW-EURODRIVE accepts no liability if other lubricants are used in the gear units and/or if they are used outside of the recommended temperature ranges.

Lubricants for standard gear units are subject to approval; approval is granted in accordance with the specifications of document 07004__13 "Supplier approval for qualification and approval of lubricants - gear unit oils" in its latest version.

INFORMATION: Printed documents may not include the latest changes. For the latest version of this document, refer to www.sew-eurodrive.de/schmierstoffe.

1.1. Explanation of the structure of the tables and abbreviations

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bromer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	SINOPEC	TOTAL	
 R. RES K.7 KES HK. F.	Standard -15 40	C.L.P.	VG 220	GearOil Base 220 E1/US1		Optigear BM 220	Renolin CLP 220 Plus	Mobilgear 600 XP 220	Klüberoil GEM 1-220 N	Shell Omala SG 220	AP-SGO 220	Carter EP 220	
				SEW 070040313		SEW 070040313	SEW 070040013						
	-20 30				GearOil Base 150 E1/US1*		Optigear BM 150	Renolin CLP 150 Plus	Mobilgear 600 XP 150	Klüberoil GEM 1-150 N	Shell Omala SG 150	AP-SGO 150	Carter EP 150
				SEW 070040313		SEW 070040313	SEW 070040013						
 	Standard -15 40	C.L.P. + RES	VG 220	GearOil Base 220 E1/US1			Renolin CLP 220 Plus	Mobilgear 600 XP 220					
				SEW 070040313		SEW 070040313	SEW 070040013						
	-20 30				GearOil Base 150 E1/US1*			Renolin CLP 150 Plus	Mobilgear 600 XP 150				
				SEW 070040313		SEW 070040313	SEW 070040013						

The specified **ambient temperatures** serve as **approximate guide values for preselecting** a suitable lubricant. The exact lower or upper temperature limit for project planning must be taken from the table with the respective trade name! During project planning, note that, due to increasing viscosity, the start-up behavior may change at low temperatures.

Supplier approval

01 751 31 04
63085461.31

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SEW drives of the series

R../ K.7/ F../ K.9/ S../ HS../ W.0/ HW.0/ W.9HG/ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7

Lubricant approvals – latest version at: www.sew-eurodrive.de/lubricants

EN Page 4/34
EGT-TD 13.02.2026

Abbreviations:

	Synthetic lubricant
	Mineral lubricant
CLP	Mineral oil
CLP PG	Polyglycol (PG)
rPCF	reduced Product Carbon Footprint
CLP HC	Synthetic hydrocarbons – polyalphaolefins (PAO)
E	Ester-based oil
	Lubricant suitable for ATEX environment
	Lubricant for the food processing industry and feed industry. The oils are registered with NSF H1 and comply with FDA 21 CFR § 178.3570.
	Lubricants that are easily biodegradable for use in environmentally sensitive areas (> 60% according to OECD 301 or according to appendix A of EPA 2013 VGP).
	Lubricants with a significantly reduced CO ₂ footprint (cradle-to-gate) made from sustainable raw materials.
1)	Helical-worm gear units with CLP-PG: Contact SEW-EURODRIVE.
2)	Low-viscosity grease
3)	With appropriate measures, the gear units can be operated at ambient temperatures as low as -40 °C. Contact SEW-EURODRIVE.
4)	Oils for the food processing industry cannot be combined with the gear unit option “Extended storage” (addition of a VCI anti-corrosion agent).
RWDR	Oil seal
PSS	Oil seal of type Premium Sine Seal (PSS). The addendum "PSS" for the lubricant type indicates compatibility with the sealing system.
SPC	Special product classification Observe the safety data sheet for product classification – special handling required.

Supplier approval

01 751 31 04
63085461.31



SEW drives of the series

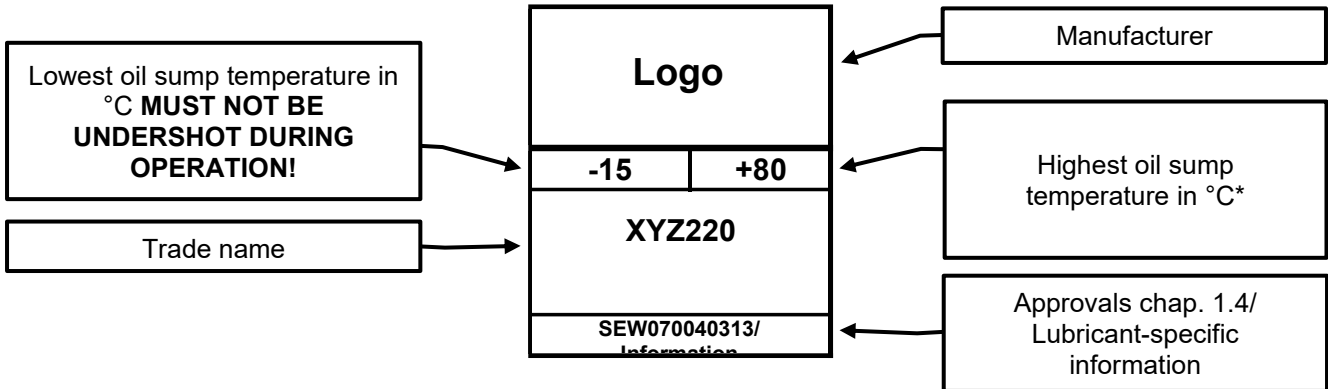
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Lubricant approvals – latest version at: www.sew-eurodrive.de/lubricants

EN Page 5/34

EGT-TD 13.02.2026

1.2. Details regarding the various lubricants

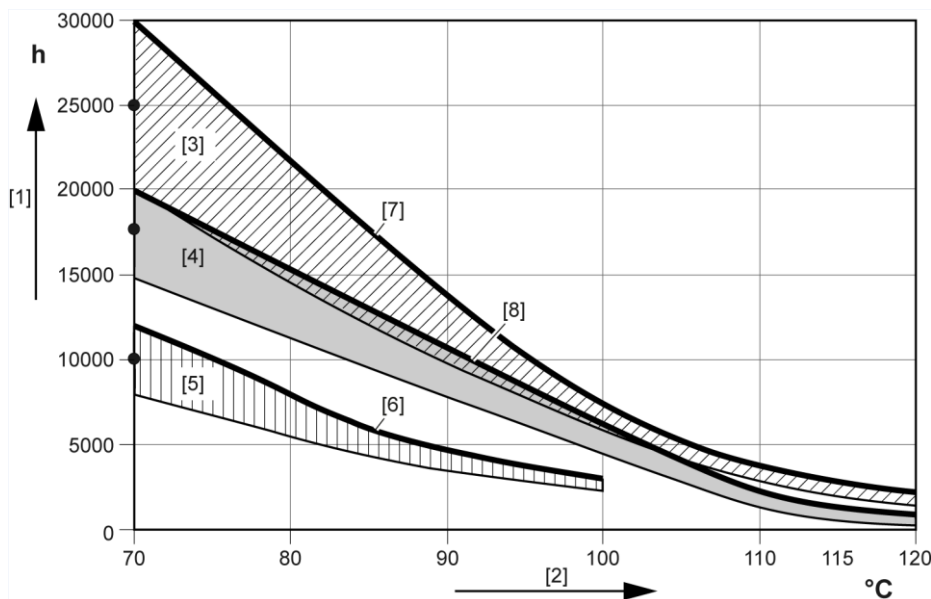


* The service life will be considerably reduced when exceeded. Observe the lubricant change intervals according to chapter 1.3.

1.3. Lubricant change intervals

The following image depicts the change intervals for standard gear units under normal ambient conditions. In special designs used under severe/aggressive ambient conditions, change the lubricant more frequently.

Notice: Loss of lubricant properties due to filling with the wrong lubricant may cause damage to the gear unit. Do not mix synthetic lubricants and mineral lubricants. In general, the guideline FVA 606 must be observed.



- | | |
|-------------------------------------|--|
| [1] Operating hours | [6] GearOil Base by SEW-EURODRIVE |
| [2] Continuous oil bath temperature | [7] GearOil Poly (H1) / GearFluid Poly (H1) by SEW-EURODRIVE |
| [3] CLP PG/CLP PG NSF H1 | [8] GearOil Synth (H1) by SEW-EURODRIVE |
| [4] CLP HC/CLP HC NSF H1 | |
| [5] CLP / E | |

Supplier approval

01 751 31 04
63085461.31



SEW drives of the series

R../ K.7/ F../ K.9/ S../ HS../ W.0/ HW.0/ W.9HG/ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7

Lubricant approvals – latest version at: www.sew-eurodrive.de/lubricants

EN Page 6/34
EGT-TD 13.02.2026

1.4. Compatibility of lubricants with oil seals

SEW07004__13: Lubricant particularly recommended by SEW-EURODRIVE, also with regard to compatibility with approved oil seals. The lubricant exceeds the state-of-the-art requirements regarding elastomer compatibility.

Permitted application temperature range of the oil seals

Oil seal material class	Approved oil sump temperature
NBR	-40 °C ... +80 °C
FKM	-25 °C ... +115 °C
FKM-PSS	-25 °C ... +115 °C

In the low temperature range, oil seals can withstand shaft deflections (e.g. through overhung load) only to a limited extent. It is particularly important to avoid or limit swelling and alternating radial displacements of the shaft. Please contact SEW-EURODRIVE if required.

Limitations of use of oil seals with the specific lubricant are indicated in the following table:

Material class	Manufacturer	Material	
S	1 NBR	1 Freudenberg 72 NBR 902	
		2 Trelleborg 4NV11	
	2 FKM	1 Freudenberg	1 75 FKM 585
			2 75 FKM 170055
		2 Trelleborg	1 VCBVR
			3 SKF 1 FKM 00934

Example 1:

S11 - In conjunction with the specific lubricant, only the elastomer 72 NBR 902 from Freudenberg meets the SEW-EURODRIVE approval requirements.

Example 2:

S2 - In conjunction with the specific lubricant, only the elastomer FKM meets the SEW-EURODRIVE approval requirements.

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

2. Helical gear units (R..), helical-bevel gear units (K.7), parallel-shaft helical gear units (F.7)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	SINOPEC	TotalEnergies	
				-15 +80	-15 +80	-15 +80	-15 +80	-15 +80	-15 +80	-15 +80	-15 +80	-15 +80
 R.. RES K..7 KES HK.. F.7	Standard -15 40	CLP	VG 220	GearOil Base 220 E1/US1/CN1/BR1	Optigear BM 220	Renolin CLP 220 Plus	Mobilgear 600 XP 220	Klüberoil GEM 1-220 N	Shell Omala S2 GX Plus 220	AP-SGO 220	Carter EP 220	
	-20 30		VG 150	GearOil Base 150 E1/US1/CN1/BR1	Optigear BM 150	Renolin CLP 150 Plus	Mobilgear 600 XP 150	Klüberoil GEM 1-150 N	Shell Omala S2 GX Plus 150	AP-SGO 150	Carter EP 150	
 Standard -15 40		CLP (PSS)	VG 220	GearOil Base 220 E1/US1/CN1/BR1		Renolin CLP 220 Plus	Mobilgear 600 XP 220			AP-SGO 220		
	-20 30		VG 150	GearOil Base 150 E1/US1/CN1/BR1		Renolin CLP 150 Plus	Mobilgear 600 XP 150			AP-SGO 150		

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		Castrol		FUCHS		Mobil		KLÜBER LUBRICATION		Shell		TotalEnergies	
				-25	+115	-25	+115	-25	+115	-25	+115	-25	+115	-25	+115	-25	+115
 R.. RES K..7 KES HK.. F.7 	Standard	CLP PG	VG 220	-25	+115	Optigear Synthetic 800/220		Renolin PG 220		Mobil Glygoyle 220		-25	+115	Shell Omala S4 WE 220			Carter SY 220
	-25			80	GearOil Poly 220 E1/CN1							SEW 070040313	SPC				
	-30			70	GearOil Poly 150 E1/CN1							SEW 070040313					
	Standard	CLP PG (PSS)	VG 220	-25	+115								-25	+115			
	-25			80	GearOil Poly 220 E1/CN1								SEW 070040313				
	-30			70	GearOil Poly 150 E1/CN1								SEW 070040313				
	Standard	CLP PG rPCF (PSS)	VG 220	-25	+115								-25	+115			
	-25			80	GearFluid Poly 220 E1								SEW 070040313				
	-30			70	GearOil Poly 150 E1/CN1								SEW 070040313				
	Standard	CLP PG NSF H1 ⁴⁾ (PSS)	VG 220	-25	+95								-25	+95			
	-25			40	GearOil Poly 220 H1 E1								SEW 070040313-SPC				
	-20			80	GearOil Poly 460 H1 E1								SEW 070040313-SPC				
Standard	CLP PG NSF H1 ⁴⁾ (PSS)	VG 460	-20	+115								-20	+115				
-20			80	GearOil Poly 460 H1 E1								SEW 070040313-SPC					
-30			30	GearOil Poly 150 H1 E1								SEW 070040313-SPC					
Standard	CLP PG NSF H1 ⁴⁾ (PSS)	VG 150	-30	+80								-30	+80				
-30			30	GearOil Poly 150 H1 E1								SEW 070040313-SPC					
-25			80	GearFluid Poly 220 H1 E1								SEW 070040513-SPC					

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

Supplier approval

01 751 31 04
63085461.31






SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

EN Page 9/34
EGT-TD 13.02.2026

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TotalEnergies
					-30 +110	-25 +110	-25 +110	-25 +110	-25 +110	-25 +110
 R.. RES K..7 KES HK.. F.7	Standard -25 60		CLP HC	VG 220 ³⁾	GearOil Synth 220 E1/US1 SEW 070040313	Renolin Unisyn CLP 220	Mobil SHC 630	Klübersynth GEM 4-220 N	Shell Omala S4 GXV Plus 220	Carter SH 220
	-30 50			VG 150 ³⁾	GearOil Synth 150 E1/US1 SEW 070040313	Renolin Unisyn CLP 150	Mobil SHC 629	Klübersynth GEM 4-150 N	Shell Omala S4 GXV Plus 150	Carter SH 150
	-35 20			VG 68		Renolin Unisyn CLP 68	Mobil SHC 626		Shell Omala S4 GXV Plus 68	
	-40 0			VG 32		Renolin Unisyn OL32	Mobil SHC 624			Dacnis SH 32
 	Standard -25 60		CLP HC (PSS)	VG 220 ³⁾	GearOil Synth 220 E1/US1 SEW 070040313		Mobil SHC 630			
	-30 50			VG 150 ³⁾	GearOil Synth 150 E1/US1 SEW 070040313		Mobil SHC 629			

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	KLÜBER LUBRICATION		
 R.. RES K..7 KES HK.. F.7 	Standard -15 40	 CLP HC NSF H1 ⁴⁾	VG 460	-20 +110	-15 +100	-15 +100	-15 +100	-15 +105		
	GearOil Synth 460 H1 E1/US1			Cassida Fluid GL 460	Optileb GT 460	Cassida Fluid GL 460	Klüberoil 4 UH1-460 N			
	SEW 070040313-SPC			SEW 070040313-SPC		SPC				
	-30 +90			-25 +80	-25 +80	-25 +80	-25 +80			
	-25 30		 CLP HC NSF H1 ⁴⁾	VG 220	GearOil Synth 220 H1 E1/US1	Cassida Fluid GL 220	Optileb GT 220	Cassida Fluid GL 220	Klüberoil 4 UH1-220 N	
	SEW 070040313-SPC				SEW 070040313-SPC		SPC			
	-35 0				-35 +50	-40 +50	-35 +50	-35 +50		
	Cassida Fluid HF 68				Optileb HY 68	Cassida Fluid HF 68	Klüberoil 4 UH1-68 N			
	-40 -10		 CLP HC NSF H1 ⁴⁾	VG 32	Cassida Fluid HF 32	Optileb HY 32	Cassida Fluid HF 32	KlüberSummit HySyn FG 32		
	SEW 070040313-SPC				SEW 070040313-SPC		SPC			
	-40 +30				-40 +30	-40 +30	-40 +30			
	Cassida Fluid HF 32				Optileb HY 32	Cassida Fluid HF 32	KlüberSummit HySyn FG 32			
Standard -15 40	 CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	-20 +110	-15 +100	-15 +100	-15 +100				
GearOil Synth 460 H1 E1/US1			Cassida Fluid GL 460	Optileb GT 460	Cassida Fluid GL 460					
SEW 070040313-SPC			SEW 070040313-SPC							
-30 +90			-25 +80	-25 +80	-25 +80					
-25 30		 CLP HC NSF H1 ⁴⁾ (PSS)	VG 220	GearOil Synth 220 H1 E1/US1	Cassida Fluid GL 220	Optileb GT 220	Cassida Fluid GL 220			
SEW 070040313-SPC				SEW 070040313-SPC						
Standard -15 50				 E	VG 460				-15 +95	
								Plantogear 460 S		
-20 40		 E	VG 320				-20 +85	-20 +85		
						Plantogear 320 S	Klüberbio EG 2-320			
							S2	S2		

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

EN Page 11/34
EGT-TD 13.02.2026

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

2.1. Other approved lubricants

The lubricants listed below meet the SEW requirements according to SEW specification SEW07004__13 for use in helical gear units (R..), helical-bevel gear units (K.7), and parallel-shaft helical gear units (F..) including Premium Sine Seal (PSS) approval; however, they are not available as an initial filling ex works.

The maximum permitted oil bath temperatures must not be exceeded.

The viscosity-temperature behavior can vary greatly depending on the selected lubricant product. During operation of the above-mentioned gear units, the minimum operating viscosity of 25 mm²/s must not be undershot, and the maximum operating viscosity of 40 000 mm²/s must not be exceeded.

Oil type	Manufacturer – product name	Viscosity
CLP (mineral) Max. oil bath temperature 80 °C		
CLP-HC (synthetic based on polyalphaolefin) Max. oil bath temperature 100 °C (short-term 110 °C)	Chevron / Texaco / Caltex – Meropa EliteSyn XM	VG150 – VG680
	Deutsche Ölwerke Lubmin GmbH – Aveno Gear Ultimate FLD	VG150 – VG680
	Hindustan Petroleum Corporation Limited – Parthan SL	VG220 – VG460
	Klüber Lubrication – Klübersynth MEG-4	VG150 – VG680
	Petro-Canada Enduratex Synthetic EP	VG150 – VG1000
	Petro-China Lubricant Company – KunLun KPM/S Synthetic Heavy-duty Industrial Gear Oil	VG150 – VG680
	Ravensberger Schmierstoffvertrieb GmbH – Ravenol Synthetic Wind Turbines SWT	VG150 – VG680
Sinopec – AP-S Industrial Gear Oil	VG150 – VG680	

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

3. Parallel-shaft helical gear units (F0.)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		Castrol		FUCHS		Mobil		KLÜBER LUBRICATION		Shell		SINOPEC		TotalEnergies	
				-15	+80	-15	+80	-15	+80	-15	+80	-15	+80	-15	+80	-15	+80	-15	+80
F02-F03 	Standard -15 40	CLP	VG 220	GearOil Base 220 E1/US1/CN1/BR1		Optigear BM 220		Renolin CLP 220 Plus		Mobilgear 600 XP 220		Klüberoil GEM 1-220 N		Shell Omala S2 GX Plus 220		AP-SGO 220		Carter EP 220	
				SEW 070040313		SEW 070040313		SEW 070040013				SEW 070040313							
			VG 150	GearOil Base 150 E1/US1/CN1/BR1		Optigear BM 150		Renolin CLP 150 Plus		Mobilgear 600 XP 150		Klüberoil GEM 1-150 N		Shell Omala S2 GX Plus 150		AP-SGO 150		Carter EP 150	
	-20 30			SEW 070040313				SEW 070040313		SEW 070040013				SEW 070040313					

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

Supplier approval

01 751 31 04
63085461.31





SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

EN Page 13/34
EGT-TD 13.02.2026

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TotalEnergies	
				-25	+115	-25	+115	-25	+115	-25	+115
F02-F03 	Standard -25 80	CLP PG	VG 220	GearOil Poly 220 E1/CN1	Optigear Synthetic 800/220	Renolin PG 220	Mobil Glygoyle 220	Klübersynth GH 6-220	Shell Omala S4 WE 220	Carter SY 220	
				SEW 070040313			SPC				
	-30 70	CLP PG iPCF	VG 220	GearOil Poly 150 E1/CN1				Klübersynth GH 6-150			
				SEW 070040313							
	Standard -25 80	CLP PG NSF H1 	VG 220	GearFluid Poly 220 E1							
				SEW 070040313							
	Standard -25 40		VG 220	GearOil Poly 220 H1 E1				Klübersynth UH1 6-220			
				SEW 070040313-SPC				SPC			
-20 80	VG 460		GearOil Poly 460 H1 E1				Klübersynth UH1 6-460				
			SEW 070040313-SPC				SPC				
-30 30	VG 150		GearOil Poly 150 H1 E1				Klübersynth UH1 6-150				
			SEW 070040313-SPC				SPC				



NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

4. Parallel-shaft helical gear units (FL.9)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	KLÜBER LUBRICATION
FL.9 	Standard -25 60	CLP PG (PSS)	VG 220	-25 +100	-25 +100
	-20 80			GearOil Poly 220 E1/CN1	Klübersynth GH 6-220
				SEW 070040313	
				-20 +115	-20 +115
	-30 40			GearOil Poly 460 E1/CN1	Klübersynth GH 6-460
				SEW 070040313	
		-30 +85	-30 +85		
	Standard -25 40	CLP PG NSF H1 ⁴⁾ (PSS) 	VG 220	-25 +80	-25 +80
	-20 70			GearOil Poly 220 H1 E1	Klübersynth UH1 6-220
				SEW 070040313	SPC
				-20 +110	-20 +110
	-30 20			GearOil Poly 460 H1 E1	Klübersynth UH1 6-460
SEW 070040313				SPC	
-30 +65		-30 +65			
		VG 150	GearOil Poly 150 H1 E1	Klübersynth UH1 6-150	
		SEW 070040313		SPC	

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

5. Helical-bevel gear units (K.9)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Mobil	KLÜBER LUBRICATION		
 K.9	Standard -20 60	CLP PG (PSS)	VG 460	-20 +95		-20 +95		
						GearOil Poly 460 E1/CN1		Klübersynth GH 6-460
						SEW 070040313		
	-15 80	VG 680			-15 +115	Klübersynth GH 6-680		
	-25 40	VG 220	-25 +70		-25 +70	Klübersynth GH 6-220		
		GearOil Poly 220 E1/CN1						
		SEW 070040313						
-30 30	VG 150	-30 +60		-30 +60	Klübersynth GH 6-150			
		GearOil Poly 150 E1/CN1						
		SEW 070040313						
-40 0	API GL5		-40 +45					
		SAE 75W90 (~VG 100)		Mobil Synthetic Gear Oil 75 W90				
-25 40	CLP PG rPCF (PSS)	VG 220	-25 +70					
			GearFluid Poly 220 E1					
			SEW 070040313					

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	KLÜBER LUBRICATION		
 K.9	Standard	 CLP PG NSF H1 ⁴⁾ (PSS)	VG 460	 SEW 070040313	 Klübersynth UH1 6-460		
	-20 60					-20 +95	-20 +95
						GearOil Poly 460 H1 E1	Klübersynth UH1 6-460
							SPC
	-15 80						-15 +115
							Klübersynth UH1 6-680
							SPC
	-25 40					-25 +70	-25 +70
						GearOil Poly 220 H1 E1	Klübersynth UH1 6-220
							SEW 070040313
-30 30	-30 +60	-30 +60					
	GearOil Poly 150 H1 E1	Klübersynth UH1 6-150					
		SEW 070040313					
		SPC					
-25 40	-25 +70						
	GearFluid Poly 220 H1 E1						
		SEW 070040513					


NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

6. Helical-worm gear units (S.., HS..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		Castrol		FUCHS		Mobil		KLÜBER LUBRICATION		SINOPEC		TotalEnergies	
				0	+80	0	+80	0	+80	0	+80	0	+80	0	+80	0	+80
S.. HS.. 	Standard 0 40	CLP	VG 680	GearOil Base 680 S E1/BR1		Optigear BM 680		Renolin CLP 680 Plus		Mobilgear 600 XP 680		Klüberoil GEM 1-680 N		AP-SGO 680		Carter EP 680	
				SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313			
	-20 25		VG 150	GearOil Base 150 E1/US1/CN1/BR1		Optigear BM 150		Renolin CLP 150 Plus		Mobilgear 600 XP 150		Klüberoil GEM 1-150 N		AP-SGO 150		Carter EP 150	
				SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313			
	Standard 0 40	CLP (PSS)	VG 680	GearOil Base 680 S E1/BR1		Renolin CLP 680 Plus		Mobilgear 600 XP 680		AP-SGO 680		SEW 070040313		SEW 070040313			
				SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313					
	-20 25		VG 150	GearOil Base 150 E1/US1/CN1/BR1		Renolin CLP 150 Plus		Mobilgear 600 XP 150		AP-SGO 150		SEW 070040313		SEW 070040313			
				SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313		SEW 070040313					

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

Supplier approval

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SEW drives of the series

R../K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

EN Page 18/34
EGT-TD 13.02.2026

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe



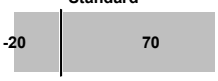


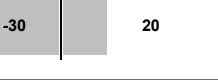



Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI						
S.. HS.. 	Standard -20 80	CLP PG ¹⁾ 	VG 460				-20 +115 Klübersynth GH 6-460		
	-25 60		VG 220	-25 +90 Optigear Synthetic 800/220	-25 +95 Renolin PG 220	-25 +100 Mobil Glygoyle 220	-25 +100 Klübersynth GH 6-220	-25 +90 Shell Omala S4 WE 220	-25 +90 Carter SY 220
	-30 40		VG 150			SPC			
	Standard -20 80	CLP PG ¹⁾ (PSS) 	VG 460				-20 +115 Klübersynth GH 6-460		
	-25 60		VG 220				-25 +100 Klübersynth GH 6-220		
	-30 40		VG 150				-30 +85 Klübersynth GH 6-150		

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe




Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		KLÜBER LUBRICATION		
S.. HS.. 	Standard	 CLP PG NSF H1 ^{1)/2)} (PSS)	VG 460	-20	+110	-20	+110	
				GearOil Poly 460 H1 E1	Klübersynth UH1 6-460			
				SEW 070040313		SPC		
			 CLP PG NSF H1 ^{1)/2)} (PSS)	VG 220	-25	+80	-25	+80
					GearOil Poly 220 H1 E1	Klübersynth UH1 6-220		
	SEW 070040313				SPC			
		 CLP PG NSF H1 ^{1)/2)} (PSS)	VG 150	-30	+65	-30	+65	
				GearOil Poly 150 H1 E1	Klübersynth UH1 6-150			
SEW 070040313				SPC				
	 CLP PG NSF H1 ^{1)/4)} I'PCF (PSS)	VG 220	-25	+80				
			GearFluid Poly 220 H1 E1					
SEW 070040513								

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		FUCHS		Mobil		KLÜBER LUBRICATION		TotalEnergies			
				-20	+110	-15	+100	-20	+105	-15	+105	-15	+105		
S.. HS.. 	Standard -15 60	 CLP HC	VG 460	-20	+110	-15	+100	-20	+105	-15	+105	-15	+105		
	-30 30			GearOil Synth 460 E1/US1	Renolin Unisyn CLP 460		Mobil SHC 634		Klübersynth GEM 4-460 N		Carter SH 460				
				SEW 070040313											
	-35 20		VG 150 ³⁾	-35	+75	-30	+70	-30	+75	-30	+70	-30	+70	-30	+70
				GearOil Synth 150 E1/US1	Renolin Unisyn CLP 150		Mobil SHC 629		Klübersynth GEM 4-150 N		Carter SH 150				
	SEW 070040313														
	-40 0		VG 68	-35	+50	-40	+55								
				Renolin Unisyn CLP 68		Mobil SHC 626									
	Standard -15 60		 CLP HC (PSS)	VG 460	-20	+110			-20	+105					
					GearOil Synth 460 E1/US1			Mobil SHC 634							
SEW 070040313															
-30 30	VG 150 ³⁾	-35	+75			-30	+75								
		GearOil Synth 150 E1/US1			Mobil SHC 629										
SEW 070040313															

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature	Ötyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	KLÜBER LUBRICATION
S. HS.. 	Standard -15 40	CLP HC NSF H1 ⁽⁴⁾ 	VG 460	-20 +95	-15 +85	-15 +90	-15 +85	-15 +90
	-25 30			GearOil Synth 460 H1 E1/US1	Cassida Fluid GL 460	Optileb GT 460	Cassida Fluid GL 460	Klüberoil 4 UH1-460 N
				SEW 070040313-SPC	SEW 070040313-SPC		SPC	
	-35 0			VG 220	-30 +75	-25 +70	-25 +70	-25 +70
		GearOil Synth 220 H1 E1/US1	Cassida Fluid GL 220		Optileb GT 220	Cassida Fluid GL 220	Klüberoil 4 UH1-220 N	
	-40 -10	VG 68	-35 +40	-40 +40	-35 +40	-35 +40	-35 +40	
			Cassida Fluid HF 68	Optileb HY 68	Cassida Fluid HF 68	Klüberoil 4 UH1-68 N		
	-40 -10	VG 32	-40 +25	-40 +20	-40 +25	-40 +25	-40 +25	
			Cassida Fluid HF 32	Optileb HY 32	Cassida Fluid HF 32	KlüberSummit HySyn FG 32		
	Standard -15 40	CLP HC NSF H1 ⁽⁴⁾ (PSS) 	VG 460	-20 +95	-15 +85	-15 +90	-15 +85	
				GearOil Synth 460 H1 E1/US1	Cassida Fluid GL 460	Optileb GT 460	Cassida Fluid GL 460	
				SEW 070040313-SPC	SEW 070040313-SPC			
-25 30				VG 220	-30 +75	-25 +75	-25 +70	-25 +75
	GearOil Synth 220 H1 E1/US1	Cassida Fluid GL 220	Optileb GT 220		Cassida Fluid GL 220			
Standard -15 50	E 	VG 460				-15 +95		
						Plantogear 460 S		
-20 40	VG 320					-20 +85	-20 +85	
					Plantogear 320 S	Klüberbio EG 2-320		
						S2	S2	

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

7. Helical-worm gear units (S.7p)

Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE
	Standard			VG 460	-20 +115
	-20	80			GearOil Poly 460 E1/CN1 SEW 070040313
	-25	60			GearOil Poly 220 E1 E1/CN1 SEW 070040313
	-30	40	VG 150	GearOil Poly 150 E1 E1/CN1 SEW 070040313	
	-25	60		VG 220	GearFluid Poly 220 E1 SEW 070040313

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

8. SPIROPLAN® gear units (W.0, HW.0, W.9HG)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Ötyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Mobil	KLÜBER LUBRICATION	
<p>W.0 HW.0 W.9HG</p>	Standard -20 60	<p>CLP PG (PSS)</p>	VG 460	-20 +115 GearOil Poly 460 W E1 SEW 070040313			
	-20 60			<p>CLP PG NSF H1⁴⁾ (PSS)</p>	VG 460	-20 +115 GearOil Poly 460 H1 E1 SEW 070040313	-20 +115 Klübersynth UH1 6-460 SPC
	-30 20					VG 150	-30 65 GearOil Poly 150 H1 E1 SEW 070040313
	-40 10	<p>API GL5</p>	SAE 75W90 (~VG 100)	-40 +65 Mobil Synthetic Gear Oil 75 W90			


NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

9. SPIROPLAN® gear units (W02-03)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	KLÜBER LUBRICATION	
W02 W03 	Standard -20 60	CLP PG (PSS)	VG 460	-20 +115		
				GearOil Poly 460 W E1		
				SEW 070040313		
	-20 60	CLP PG NSF H1 ⁴⁾ (PSS)	VG 460	-20 +115	-20 +115	
				GearOil Poly 460 H1 E1	Klübersynth UH1 6-460	
				SEW 070040313	SPC	
	Standard -25 40			VG 220	-25 +80	-25 +80
					GearOil Poly 220 H1 E1	Klübersynth UH1 6-220
					SEW 070040313	SPC
	-30 20			VG 150	VG 150	-30 65
	GearOil Poly 150 H1 E1	Klübersynth UH1 6-150				
	SEW 070040313	SPC				


NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

10. SPIROPLAN® gear units (W.9)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Mobil	KLÜBER LUBRICATION
W.9 WES.9 	Standard -25 60	CLP PG (PSS)	VG 220	-25 +100 GearOil Poly 220 E1/CN1 SEW 070040313		-25 +100 Klübersynth GH 6-220
	-20 80			-20 +115 GearOil Poly 460 E1/CN1 SEW 070040313		-20 +115 Klübersynth GH 6-460
	-30 40			-30 +85 GearOil Poly 150 E1/CN1 SEW 070040313		-30 +85 Klübersynth GH 6-150
	-40 10	API GL5	SAE 75W90 (~VG 100)	-40 +65 Mobil Synthetic Gear Oil 75 W90		
	-25 60	CLP PG rPCF (PSS)	VG 220	-25 +100 GearFluid Poly 220 E1 SEW 070040313		
	Standard -25 40	CLP PG NSF H1 ⁴⁾ (PSS)	VG 220	-25 +80 GearOil Poly 220 H1 E1 SEW 070040313		-25 +80 Klübersynth UH1 6-220 SPC
	-20 70			-20 +110 GearOil Poly 460 H1 E1 SEW 070040313		-20 +110 Klübersynth UH1 6-460 SPC
	-30 20			-30 +65 GearOil Poly 150 H1 E1 SEW 070040313		-30 +65 Klübersynth UH1 6-150 SPC
	-25 40			-25 +80 GearFluid Poly 220 H1 E1 SEW 070040513		

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

11. PxG gear units

Produkt / Product	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	
PxG P5.G P7.G 	 CLP PG (PSS)	VG 220	-15	+90
			GearOil Poly 220 E1/CN1 SEW 070040313	
	 CLP PG rPCF (PSS)	VG 220	-15	+90
			GearFluid Poly 220 E1 SEW 070040313	
	 CLP PG NSF H1 ⁴⁾ (PSS)	VG 220	-15	+90
			GearOil Poly 220 H1 E1 SEW 070040313	
	 CLP PG NSF H1 ⁴⁾ rPCF (PSS)	VG 220	-15	+90
			GearFluid Poly 220 H1 E1 SEW 070040513	
PxG P6.G 	 CLP PG (PSS)	VG 150	-20	+90
			GearOil Poly 150 E1/CN1 SEW 070040313	
	 CLP PG NSF H1 ⁴⁾ (PSS)	VG 150	-20	+90
			GearOil Poly 150 H1 E1 SEW 070040313	
	 Fett / Grease	NLGI 2	-15	+90
			Grease HL2 E1	
 Fett / Grease	NLGI 2	-15	+90	
		Grease HL2 H1 E1		

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.






The configurable lubricant depends on the gear unit performance class. Not all listed lubricants are available in all performance classes!

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

12. PS.F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Ötyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		Mobil	KLÜBER LUBRICATION	
				-25	+100		-25	+100
PS.F 	Standard -25 80	 CLP PG PSS	VG 220	GearOil Poly 220 E1/CN1 SEW 070040313			Klübersynth GH 6-220	
	-25 80	 CLP PG rPCF PSS	VG 220	GearFluid Poly 220 E1 SEW 070040313				
	-20 80	 CLP PG NSF H1 ⁴⁾ PSS	VG 460	GearOil Poly 460 H1 E1 SEW 070040313			Klübersynth UH1 6-460	
	-40 0	 CLP HC	VG 32		Mobil SHC 624			SPC


NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

13. PS.C gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		Mobil	
				-15	+80	-15	+80
 PS.C	Standard -15 40	CLP	VG 220	GearOil Base 220 E1/US1/CN1/BR1 SEW 070040313		Mobilgear 600 XP 220 SEW 070040013	
	-40 0			CLP HC	VG 32	-40 +50 Mobil SHC 624	
	-20 40	Fett / Grease	NLGI 00 ²⁾			-20 +80 Mobilux EP 004	
	-20 40			NLGI 2	-20 +80 Grease HL 2 H1 E1		







NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

14. BS.F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		KLÜBER LUBRICATION	
				-25	+100	-25	+100
 BS.F	Standard -25 60	 CLP PG (PSS)	VG 220	GearOil Poly 220 E1 E1/CN1	Klübersynth GH 6-220		
				SEW 070040313			
	-25 60	  CLP PG rPCF (PSS)	VG 220	GearFluid Poly 220 E1			
				SEW 070040313			
	-20 60	  CLP PG NSF H1 ⁴⁾ (PSS)	VG 460	GearOil Poly 460 H1 E1	Klübersynth UH1 6-460		
				SEW 070040313			
					SPC		

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

15. MGF gear units (MGF..-B, MGF..-C, MGF..-DSM, MGF../PG)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil
	Standard -25 60	CLP HC (PSS)	VG 220	-30 +110 GearOil Synth 220 E1/US1 SEW 070040313				-25 +110 Mobil SHC 630
	-30 50			VG 150	-35 +105 GearOil Synth 150 E1/US1 SEW 070040313			
	-40 20	CLP HC	VG 68					
MGF...C 	Standard -15 40	CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	-20 +110 GearOil Synth 460 H1 E1/US1 SEW 070040313-SPC	-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460	
	-25 30			VG 220	-30 +90 GearOil Synth 220 H1 E1/US1 SEW 070040313-SPC	-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220
	-35 10	CLP HC NSF H1 ⁴⁾	VG 68			-35 +50 Cassida Fluid HF 68	-40 +50 Optileb HY 68	-35 +50 Cassida Fluid HF 68
	-25 60	CLP PG rPCF (PSS)	VG 220	-25 +100 GearFluid Poly 220 E1 SEW 070040313				

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

Supplier approval

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SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

EN Page 31/34

EGT-TD 13.02.2026

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		b bremer & leguil		Castrol		FUCHS		Mobil		KLÜBER LUBRICATION		Shell		TotalEnergies				
					-30	+110																	
<p>MGF...B MGF...DSM</p>	Standard -25 60		CLP HC	VG 220	GearOil Synth 220 E1/US1						-25	+110	-25	+110	-25	+110	-25	+110	-25	+110			
					SEW 070040313																		
					Renolin Unisyn CLP 220		Mobil SHC 630		Klübersynth GEM 4-220 N		Shell Omala S4 GXV Plus 220		Carter SH 220										
	-30 50			VG 150	GearOil Synth 150 E1/US1								-30	+95	-30	+100	-30	+100	-30	+100	-30	+95	
					SEW 070040313																		
					Renolin Unisyn CLP 150		Mobil SHC 629		Klübersynth GEM 4-150 N		Shell Omala S4 GXV Plus 150		Carter SH 150										
	Standard -25 60		CLP HC (PSS)	VG 220	GearOil Synth 220 E1/US1									-25	+110								
					SEW 070040313																		
					Renolin Unisyn CLP 150		Mobil SHC 629																
	-30 50			VG 150	GearOil Synth 150 E1/US1										-30	+100							
					SEW 070040313																		
					Renolin Unisyn CLP 150		Mobil SHC 629																
Standard -15 40		CLP HC NSF H1 ⁴⁾	VG 460	GearOil Synth 460 H1 E1/US1		-15	+100	-15	+100	-15	+100					-15	+105						
				SEW 070040313-SPC		Cassida Fluid GL 460		Optileb GT 460		Cassida Fluid GL 460		Klüberoil 4 UH1-460 N		SPC									
				Renolin Unisyn CLP 150		Mobil SHC 629																	
-25 30			VG 220	GearOil Synth 220 H1 E1/US1		-25	+80	-25	+80	-25	+80					-25	+80						
				SEW 070040313-SPC		Cassida Fluid GL 220		Optileb GT 220		Cassida Fluid GL 220		Klüberoil 4 UH1-220 N		SPC									
				Renolin Unisyn CLP 150		Mobil SHC 629																	
Standard -15 40		CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	GearOil Synth 460 H1 E1/US1		-15	+100	-15	+100	-15	+100												
				SEW 070040313-SPC		Cassida Fluid GL 460		Optileb GT 460		Cassida Fluid GL 460													
				Renolin Unisyn CLP 150		Mobil SHC 629																	
-25 30			VG 220	GearOil Synth 220 H1 E1/US1		-25	+80	-25	+80	-25	+80												
				SEW 070040313-SPC		Cassida Fluid GL 220		Optileb GT 220		Cassida Fluid GL 220													
				Renolin Unisyn CLP 150		Mobil SHC 629																	
Standard -25 60		CLP PG rPCF (PSS)	VG 220	GearFluid Poly 220 E1																			
				SEW 070040313-SPC																			
				Renolin Unisyn CLP 150		Mobil SHC 629																	

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R./ K.7/ F.7/ F0./ FL.9/ K.9/ S./ HS./ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil		
 MGF...B /PG MGF...-DSM /PG MGF...C /PG 	Standard -25 60	CLP HC (PSS)	VG 220	-30 +110 GearOil Synth 220 E1/US1 SEW 070040313				-25 +110 Mobil SHC 630		
	-30 50			-35 +105 GearOil Synth 150 E1/US1 SEW 070040313				-30 +100 Mobil SHC 629		
	Standard -15 40			CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	-20 +110 GearOil Synth 460 H1 E1/US1 SEW 070040313-SPC	-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460	
	-25 30					-30 +90 GearOil Synth 220 H1 E1/US1 SEW 070040313-SPC	-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220	
-25 60	 CLP PG rPCF (PSS)	VG 220	-25 +100 GearFluid Poly 220 E1 SEW 070040313							




NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

16. Hoist gear units (G.7)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI		
G.7 	Standard 	CLP PG (PSS)	VG 680	-15	+115
				Klübersynth GH 6-680	




NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.

SEW drives of the series

R../ K.7/ F.7/ F0./ FL.9/ K.9/ S../ HS../ S.7p/ W.0/ HW.0/ W.9HG/ W0./ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7/ Z..

Lubricant approvals – latest version at: www.sew-eurodrive.de/schmierstoffe

17. Cycloidal gear units (Z..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	FUCHS	KYODO YUSHI Essence of Tribology		
ZN.. ZE.. ZP.. ZC.. 	Standard -10 40	 CLP HC (PSS)	VG 150		-10 60 Cassida Fluid GL 150		
	-10 40				CLP HC	VG 150	-10 60 VigoOil SB150
	Standard -10 40				Fett/ Grease	NLGI 00	-10 60 RV Grease LB00

NOTICE: The thermal application limits of the oil seal materials (chapter 1.4) must also be taken into account.