



SPECIAL GREASES

solutions for technical complex requirements

For more than 50 years we develop special lubricants and maintenance product in close cooperation with customers and partners for almost all applications in the industry.

setral® special greases are being developed in own and modern laboratories since 1969. There they are tested until they are ready for the market. By using innovative lubricants formulations even the most technical complex application problems are being solved. The sophisticated production process ensures lubricants that fulfill a constant quality standard worldwide.

setral® special greases greases are approved by many OEMs worldwide. And recommended and successfully used by numerous renowned companies.

setral® special greases are used in almost every industry and are convincing by its continuous quality in difficult applications like they exist in mechanical or plant engineering as well as in the automotive, chemical, wood, plastic, food, pharmaceutical, steel, packaging and cement industry.

setral® special greases are also available with H1 registration, certified according to DIN ISO 21469 as well as Kosher & Halal. Thus they fulfill the requirements of the HACCP quality standard of the food and pharmaceutical industry.

In addition to the most suitable special greases we offer more than 800 further products. Our permanent active research on new lubrication technologies is proactive for any individual customized requirement.

The special selection of our product portfolio gives you a first overview of the most suitable grease for your specific application. Moreover our experts are available for individual advice.

Miscibility of greases

Before using lubricants important technical parameters are to be taken into account to reach the best possible efficiency of components and thus to reduce costs. Therefore, the best choice of suitable base oil and thickener has to be made as well as the consideration of the miscibility of both components. The following table gives you an advice of fundamental trends but this well-grounded expertise does not replace essential lab and practical tests.

Miscibility of base oils

	MINERAL OIL	POLYALPHAOLEFIN (PAO)	ESTER OIL	POLYALKYLEN-GLYKOL (PAG)	SILICONE OIL		PERFLUORPOLYETHER (PFPE)
					METHYL	PHENYL	
Mineral oil	++	++	+	-	-	+	-
PAO	++	++	+	-	-	-	-
Ester oil	+	+	++	+	-	+	-
PAG	-	-	+	++	-	-	-
Silicone oil	methyl	-	-	-	++	+	-
	phenyl	+	-	+	+	++	-
PFPE	-	-	-	-	-	-	++

Key: ++ = miscible + = limited miscible - = immiscible

Consistency (NLGI)

The consistency is the measure for the deformability of greases. To enable a comparability of grease consistency NLGI grades were established.

Consistency according to NLGI and DIN 51818 with worked penetration according to DIN ISO 2137.

NLGI GRADE	WORKED PENETRATION [1/10 MM]	CONSISTENCY	MAIN APPLICATION
000	445 to 475	liquid	Gears and central lubrication systems
00	400 to 430	almost liquid	Gears and central lubrication systems
0	355 to 385	semi-liquid	Gears and central lubrication systems
1	310 to 340	very soft	Roller and slide bearings
2	265 to 295	soft	Roller and slide bearings
3	220 to 250	still soft	Roller and slide bearings
4	175 to 205	semi-solid	Sealings
5	130 to 160	solid	Sealings
6	85 to 115	very solid	Sealings

Miscibility of thickeners

		METAL SOAPS				COMPLEX METAL SOAPS					INORGANIC/ORGANIC			
		Al	Ca	Li	Na	Al	Ba	Ca	Li	Na	Ben-tonite	Urea	PTFE	Aerosil
METAL SOAPS	Al	++	+	+	+	++	+	+	+	+	+	+	++	++
	Ca	+	++	+	+	-	+	+	+	+	+	+	++	++
	Li	+	+	++	-	-	+	+	++	-	-	+	++	++
	Na	+	+	-	++	-	++	+	+	+	+	+	++	++
COMPLEX METAL SOAPS	Al	++	-	-	-	++	++	+	++	+	-	+	++	++
	Ba	+	+	+	++	++	++	+	+	+	+	++	++	++
	Ca	+	+	+	+	+	+	++	++	+	-	++	++	++
	Li	+	+	++	-	++	+	+	++	+	+	+	++	++
	Na	+	+	+	+	+	+	+	+	++	-	+	++	++
INORGANIC ORGANIC	Bentonite	+	+	-	+	-	+	-	+	-	++	+	++	++
	Urea	+	+	+	+	+	+	++	+	+	+	++	++	++
	PTFE	++	++	++	++	++	++	++	++	++	++	++	++	++
	Aerosil	++	++	++	++	++	++	++	++	++	++	++	++	++

Speed factor

The speed factor A_{grease} is the product of the rotation speed n_{grease} and the average bearing diameter $d_{m,grease}$ which is calculated from the average of outer bearing diameter D and the inner bearing diameter d .
The speed factor enables the correlation to specific rotation speeds (rpm).

$$A = n \cdot d_m \text{ with } d_m = 1/2 (D+d)$$

	nd_m (mm min ⁻¹)
low rotation speed	<100.000
medium rotation speed	100.000 - 300.000
high rotation speed	300.000 - 500.000
very high rotation speed	>500.000

Loading conditions C/P

C [N] is the dynamic load rating. It is the loading with an adequate amount of similar bearings which have a nominal lifetime of 1 000 000 rotations.

P [N] is the dynamic equivalent load. This is a calculated value which represents the sum of rotary and axial loading with a special factor.

C/P	Degree of loading
>30	very low loading
20-30	low loading
8-20	medium loading
4-8	high loading
<4	extreme high loading

Comparison of fundamental properties

	SOAP TYPE	LOW TEMPERATURE	HIGH TEMPERATURE	WATER RESISTANCE	SHEAR STABILITY	EP BEHAVIOR	CORROSION PROTECTION BEHAVIOR
METAL SOAPS	Calcium	good	moderate	very good	moderate	good	sufficient
	Lithium	good	good	good	very good	moderate	good
	Aluminum	good	moderate	good	moderate	moderate	very good
COMPLEX METAL SOAPS	Calcium	moderate	moderate	very good	moderate	good	moderate
	Aluminum	good	good	very good	moderate	very good	good
	Lithium	good	very good	very good	very good	very good	good
INORGANIC/ORGANIC	Calcium sulfonate	good	good	very good	very good	very good	very good
	Urea	good	very good	very good	very good	good	good
	Bentonite	good	moderate	moderate	moderate	moderate	moderate
	PTFE	good	very good	very good	moderate	good	very good
Aerosil	sufficient	good	good	good	sufficient	sufficient	moderate

Technical environmental conditions

This table shows an **extract** of test options of specific standards to simulate and test referring to environmental conditions.

	High temperature	Low temperature	High loads	Aggressive / aqueous media	High / low rotation speed	incidental unavoidable technical contact with food	Lifetime lubrication / bearing service life	Electric contact
WORKED PENETRATION according to DIN ISO 2137							x	
FLOW PRESSURE according to DIN 51805		x						
RHEOLOGY AND TRIBO CELL	x	x	x		x		x	
OIL SEPARATION according to DIN 51817							x	
DROPPING POINT according to DIN ISO 2176	x							
WATER-RESISTANCE according to DIN ISO 51897-2				x				
SKF EMCOR (STEEL CORROSION) according to DIN 51811				x			x	
FAG-FE9 according to DIN 51821				x			x	
SKF-ROF-TEST					x		x	
FAG-FE8 according to DIN 51819			x				x	
FOUR-BALL-APPARATUS-WELDING LOAD ACCORDING TO DIN 51350-4			x		x			
SHELL ROLLER according to ASTM D 1831			x		x		x	
ELECTRIC CONDUCTIVITY								x
HYGIENE REQUIREMENT according to DIN ISO 21469						x		
H1						x		
HALAL, KOSHER						x		



Low temperature

PRODUCT	BASE OIL	BASE OIL VISCOSITY AT 40 °C [mm ² /s]	NLGI	SOLID LUBRICANTS/ THICKENER	TEMPERATURE RANGE [°C] *	DESCRIPTION	FEATURES
SYN-setral-LI/S 2	Synthetic	27	2	Special lithium	-50 to +130 (short term +150)	Fully synthetic low-temperature grease for long-term lubrication	<ul style="list-style-type: none"> - Reduction of running-in time - Good compatibility with plastics - Very good low-temperature properties
SYN-setral-43 B/N	Synthetic	30	2	Special lithium	-50 to +140	Full synthetic special grease with white solid lubricants for a wide temperature range	<ul style="list-style-type: none"> - Life-time lubrication - Low running-in torque at low-temperature - Excellent corrosion protection - Very good anti oxidation behaviour
SYN-setral-SINT/125 CST-2 FD	Synthetic	90	2-3	Special	-55 to +200 (short term +220)	Synthetic special H1 grease for low and high temperatures based on an innovative lubrication technology	<ul style="list-style-type: none"> - More economical compared to common PTFE greases - Very good shear stability - Compatible with most plastics and elastomers - Low running-in torque at low-temperature
SYN-setral-CA/C2-80	Synthetic	80	1-2	Calcium sulfonate complex	-55 to +150	Synthetic and media-resistant low-temperature grease with high wear and corrosion protection	<ul style="list-style-type: none"> - Shear stability - Excellent corrosion protection - Excellent wear protection"
SYN-setral-INT/90 M-2	PFPE	85	2	PTFE	-75 to +220 (short term +240)	Fully synthetic lifetime lubricant with excellent low-temperature properties	<ul style="list-style-type: none"> - Especially wide temperature application range - High wear protection - Extended re-lubrication intervals

* Variiert je nach NLGI Klasse



High temperature

PRODUCT	BASE OIL	BASE OIL VISCOSITY AT 40 °C [mm ² /s]	NLGI	SOLID LUBRICANTS/ THICKENER	TEMPERATURE RANGE [°C] *	DESCRIPTION	FEATURES
SYN-setral-INT/250 S ...series	PFPE	500 480 480	1 2 3	PTFE	-40 to +260 (short term +280)	Fully synthetic special grease for long-term lubrication, stable at high temperature and aggressive ambience	<ul style="list-style-type: none"> - Extremely low evaporation rate - Extended relubrication cycles - Economical in consumption
SYN-setral-INT/330 Special	PFPE	1000	2	Organic, white solid lubricants	-10 to +300 (short term +330)	Fully synthetic, special grease for lubrication at high temperature and aggressive ambience	<ul style="list-style-type: none"> - Suitable for extreme temperatures - Extraordinary low evaporation losses at up to +300 °C - Very good adhesion property
SYN-setral-SINT/425 CST-2	Synthetic	425	2	Special	-20 to +220 (short term +240)	Synthetic high-temperature special grease based on an innovative lubrication technology	<ul style="list-style-type: none"> - Very good shear stability - Highest pressure and temperature stability - More economical compared to common PTFE greases
SYN-setral-PU 2	Synthetic	100	2	Urea	-40 to +180	Fully synthetic low and high-temperature grease for long-term lubrication	<ul style="list-style-type: none"> - Very good anti oxidation behaviour - Low-noise roller bearing lubricant - Extended re-lubrication intervals"
SYN-setral-PU 460	Synthetic	460	2	Urea, white solid lubricants	-30 to +180 (short term +200)	Fully synthetic urea grease for a wide temperature range	<ul style="list-style-type: none"> - High thermal stability - Very good anti oxidation behaviour - Extended re-lubrication intervals

* Variiert je nach NLGI Klasse



High load

PRODUCT	BASE OIL	BASE OIL VISCOSITY AT 40 °C [mm ² /s]	NLGI	SOLID LUBRICANTS/ THICKENER	TEMPERATURE RANGE [°C] *	DESCRIPTION	FEATURES
SYN-setral-LI/C 400 PD	Synthetic	400	2	Lithium complex	-38 to +180	Fully synthetic high-temperature grease with EPL additive technology for extremely loaded slide and roller bearings	<ul style="list-style-type: none"> - Excellent wear protection - Highest load carrying ability - Low and stable FEB friction coefficient run at room temperature according to DIN 51819
MI-setral-CA/C2-400	Mineral oil	460	1-2	Calcium sulfonate complex	-25 to +150 (short term +180)	Media-resistant special grease with excellent wear and corrosion protection	<ul style="list-style-type: none"> - Excellent wear protection - Excellent adhesion - No spin-off/drop-off at high speeds
MI-setral-LI/C2-1000 MG	Mineral oil	1000	2	Lithium complex, black solid lubricants	-20 to +150	Long-term grease with high base oil viscosity and special additive technology for applications under heavy loads	<ul style="list-style-type: none"> - Excellent wear protection - High load carrying ability - Economical in consumption
SYN-setral-SINT/425 CST-2	Synthetic	425	2	Special	-20 to +220 (short term +240)	Synthetic high-temperature special grease based on an innovative lubrication technology	<ul style="list-style-type: none"> - Very good shear stability - Good corrosion protection - Excellent wear protection
MI-setral-LI/PD 2-400	Mineral oil	400	2	Lithium	-20 to +140	High-pressure grease without solids, with EPL additive technology	<ul style="list-style-type: none"> - Surface smoothening - Extremely low coefficient of friction - Excellent wear protection

* Varies depending on NLGI class



High speed

PRODUCT	BASE OIL	BASE OIL VISCOSITY AT 40 °C [mm ² /s]	NLGI	SOLID LUBRICANTS/ THICKENER	TEMPERATURE RANGE [°C] *	DESCRIPTION	FEATURES
SYN-setral-HSP/N	Synthetic	27	2	Lithium complex	-50 to +130 (short term +150)	Fully synthetic high speed and spindle grease	<ul style="list-style-type: none"> - Very good wear protection - Stable at very high speeds - Avoids stick-slip
MI-setral-LI/PD 2	Mineral oil	120	2	Lithium	-35 to +140	High-pressure grease without solids, with EPL additive technology	<ul style="list-style-type: none"> - Excellent wear protection - Extremely low coefficient of friction - Surface smoothening
SYN-setral-HSR	Synthetic	15	2	Lithium	-50 to +120	Semi-synthetic special grease for slide and roller bearings operating at high speed	<ul style="list-style-type: none"> - Suitable for high speed - Very good wear protection - Good anti oxidation behaviour
SYN-setral-CA/C2-30 FD	Synthetic	30	2	Calcium sulfonate complex	-25 to +150 (short term +180)	Media-resistant H1 high-performance and low-temperature grease with high wear and corrosion protection	<ul style="list-style-type: none"> - High load carrying ability - Excellent wear protection - Shear stability
SYN-setral-LI/S 2	Synthetic	27	2	Special lithium	-50 to +130 (short term +150)	Fully synthetic low-temperature grease for long-term lubrication	<ul style="list-style-type: none"> - Wide application temperature range - Significantly shorter running-in phases - Good anti oxidation behaviour

* Varies depending on NLGI class



H1 lubricants

PRODUCT	BASE OIL	BASE OIL VISCOSITY AT 40 °C [mm ² /s]	NLGI	SOLID LUBRICANTS/ THICKENER	TEMPERATURE RANGE [°C] *	DESCRIPTION	FEATURES	CERTIFICATS
SYN-setral-INT/250 FD ...series	PFPE	500	00 0 1 2	PTFE	-40 to +260	H1 high-temperature grease for long-term lubrication in the food and pharmaceutical industry, particularly at high temperatures and aggressive ambience	<ul style="list-style-type: none"> - High load carrying ability - Resistant against chemicals and aggressive media - Good anti oxidation behaviour 	H1 Koscher Halal
SYN-setral-SINT/425 CSF-2 FD	Synthetic	425	2	Special	-55 to +200 (short term +220)	H1 high-temperature special grease based on an innovative lubrication technology	<ul style="list-style-type: none"> - Excellent wear protection - Very good anti oxidation behaviour - Low wear values on FE8 run with angular ball bearing at 200°C according to DIN 51819 part 2 	H1 Koscher Halal
SYN-setral-CA/C2 FD ...series	Synthetic	30 100 400	2	Calcium sulfonate complex	-30 to +170 (short term +180)	Multi-purpose and media-resistant H1 high-temperature grease with high wear and corrosion protection	<ul style="list-style-type: none"> - High load carrying ability - Excellent wear protection - Shear stability 	H1 Koscher Halal
SYN-setral-AL/C FD ...series	Synthetic	260	00 0 1 2	Aluminum complex	-40 to +150 (short term +160)	Fully synthetic H1 aluminium complex grease for the food and pharmaceutical industry	<ul style="list-style-type: none"> - Compatible with usual plastic and sealing materials - Free from mineral oil - Very good anti oxidation behaviour 	H1 Koscher Halal
SYN-setral-BFG 2-400	Synthetic	400	2	Organic	-40 to +120 (short term +150)	H1 adhesive lubricating grease for the food, beverage and pharmaceutical industry	<ul style="list-style-type: none"> - Approved beer foam compatibility with passed sensor system check of odor and taste from research center Weihenstephan - Tested by Institut Nehrting to ensure safety in terms of food law - Good anti oxidation behaviour 	H1 Koscher Halal

*Varies depending on NLGI class





Media-resistant

PRODUCT	BASE OIL	BASE OIL VISCOSITY AT 40 °C [mm ² /s]	NLGI	SOLID LUBRICANTS/ THICKENER	TEMPERATURE RANGE [°C] *	DESCRIPTION	FEATURES
SYN-setral-INT/250 A ...series	PFPE	510	0 1 2	PTFE	-40 to +250 (short term +280)	Fully synthetic special grease for long-term lubrication, stable at high temperature and aggressive ambience	<ul style="list-style-type: none"> - Resistant against chemicals and aggressive media - Extremely low evaporation rate - Neutral to most plastics and elastomers
SYN-setral-INT/330 Special	PFPE	1000	2	Organic, white solid lubricants	-10 to +300 (short term +330)	Fully synthetic, special grease for lubrication at high temperature and aggressive ambience	<ul style="list-style-type: none"> - Insoluble in usual solvents, acids, lye - Very good adhesion property - H1 registered
SYN-setral-INT/1000	PFPE	500	2	Organic, white solid lubricants	-20 to +300 (short term >300)	Fully synthetic special grease free from PTFE, for long-term lubrication under extreme conditions	<ul style="list-style-type: none"> - Resistant against chemicals and aggressive media - Extend re-lubrication intervals - Excellent wear protection
MI-setral-CA/C2 ...series	Mineral oil	220 460	2	Calcium sulfonate complex	-30 to +160 (short term +180)	Media-resistant special grease with excellent wear and corrosion protection	<ul style="list-style-type: none"> - Excellent media-resistant - Excellent water resistance - Excellent corrosion protection
SI-setral-L 50	Silicone oil	150	2	PTFE	-50 to +200	H1 high-temperature silicone grease with PTFE	<ul style="list-style-type: none"> - Stable to cold and hot water - Hot steam resistant - Compatible with FKM, NBR elastomers

*Varies depending on NLGI class



Applications

This selection table shows a first overview of diverse application areas of special lubricating greases.

This collection is an extract of our product portfolio and serves as a first guideline.

PRODUCT	NGLI	TEMPERATURE RANGE [°C]*	APPLICATION										CHARACTERISTICS												
			Bearing	Gear	Valve / Fitting	Sealing	Assembly	Guide / Joint	H1 DIN EN ISO	Halal & Kosher	Beer foam compatibility	Life-time lubrication	Low temperature	High temperature	High load	Vibration	Low speed	High speed	Water resistance	Chemical resistance	Plastic and sealing compatibility	Electric contact	Biological degradability	Solid lubricants content	
Mi-setral-43 N	2	-20 to +130	++	++																					++
Mi-setral-61 B ...series	00/0/2	-20 to +110	++																						++
Mi-setral-AL/C2 FD	2	-20 to +130 (short term +150)	++						++	++															
Mi-setral-AL/FD ...series	00/1/2	-25 to +140 (short term +160)	++						++	++															++
Mi-setral-CA/C2-180	1-2	-30 to +160	++						++	++															++
Mi-setral-CA/C2-180 M	1-2	-25 to +160	++						++	++															++
Mi-setral-CA/C2-400	1-2	-25 to +150 (short term 180)	++						++	++															++
Mi-setral-FKR ...series	0/2	-15 to +120 (short term 140)							++	++															++
Mi-setral-H	2	-20 to +125	++						++	++															++
Mi-setral-HT 2	2	-20 to +180 (short term +200)	++						++	++															++
Mi-setral-LI/B/EP 2	2	-20 to +130	++						+																++
Mi-setral-LI/C 2	2	-20 to +150 (short term +180)	++																						++
Mi-setral-LI/C2-1000 M6	2	-20 to +150	++																						++
Mi-setral-LI/PD ...series	00/0/1/2	-35 to +140	++																						++
Mi-setral-06/0-800	0	-20 to +150 (short term +180)							++	++															++
Mi-setral-AL/C0-500 G	0	-30 to +120 (short term +150)							++	++															++
Mi-setral-PU ...series	2	-30 to +150 (short term +170)	++						++	++															++
SI-setral-642	1-2	-40 to +200							++	++															++
SI-setral-1041/FD	2-3	-30 to +200							+	++															++
SI-setral-929/FD	3	-50 to +200							++	++															++
SI-setral-L 50	2	-50 to +200	++						++	++															++
SI-setral-LI/C 2	2	-50 to 220 (short term +230)							++	++															++

MINERAL OIL

SILICONE OIL

Key: ++ = recommend + = suitable *Varies depending on NGLI class

TYPE OF BASE OIL

SYN-setral-43 B/N	2	-50 to +140							++	++															++
SYN-setral-53 B ...series	0/3	-5 to +150	++						++	++															++
SYN-setral-54 N	2-3	-20 to +180	++																						++
SYN-setral-AL/C FD ...series	00/0/1/2	-40 to +150	++						++	++															++
SYN-setral-CA/C-FD ...series	0/2	-35 to +150	++						++	++															++
SYN-setral-BFG 2-400	2	-40 to +120 (short term +150)							++	++															++
SYN-setral-CA/C2-80	1-2	-55 to +150	++																						++
SYN-setral-DG 313	1	-5 to +150							++	++															++
SYN-setral-LI/S-2 UV	2	-50 to +130 (short term +150)	++						++	++															++
SYN-setral-EK ...series	0-1/2	-50 to +150							++	++															++
SYN-setral-HSR	2	-50 to +120	++						+																++
SYN-setral-HSP/N	2	-50 to +130 (short term +150)	++						++	++															++
SYN-setral-LI/C 400 PD	2	-38 to +180	++																						++
SYN-setral-HT 2 N	1-2	-20 to +180 (short term +200)	++						+																++
SYN-setral-PU ...series	1-2/2	-40 to +160 (short term +180)	++																						++
SYN-setral-PG 814	1-2	-40 to +150 (short term +160)	++						++	++															++
SYN-setral-CA 2 B	2	-30 to +80 (short term +100)	+						++	++															++
SYN-setral-SPEEDFLEX 2	2-3	-40 to +120 (short term +140)	++						++	++															++
SYN-setral-SINT/425 CST-2	2	-20 to +220 (short term +240)	++						++	++															++
SYN-setral-SINT/125 CST-2 FD	2-3	-55 to +200 (short term +220)	++						+	++															++
SYN-setral-SINT/425 CSF-2 FD	2	-20 to +220 (short term +240)	++						+	++															++
SYN-setral-INT/330 Special	2	-10 to +300 (short term +330)	++						++	++															++
SYN-setral-INT/1000	2	-20 to +300	++						++	++															++
SYN-setral-INT/190 R-2	2	-45 to +250	++						+	++															++
SYN-setral-INT/OX ...series	2	-20 to +250	+						++	++															++
SYN-setral-INT/250 A ...series	0/1/2	-40 to +250 (short term +280)	++						+	++															++
SYN-setral-INT/310 FD	1	-20 to +310 (short term +320)	++						++	++															++
SYN-setral-INT/250 FD ...series	00/0/1/2	-40 to +260 (short term +280)	++						+	++															++
SYN-setral-INT/250 S ...series	1/2/3	-40 to +260 (short term +280)	++						+	++															++
SYN-setral-INT/250 L ...series	1/2	-40 to +250 (short term +280)	++						+	++															++
SYN-setral-INT/300	2	-30 to +300							+	++															++
SYN-setral-INT/90 M-2 ...series	2	-75 to +220 (short term +240)	++						+	++															++
SYN-setral-INT/Special	3	-20 to +280							+	++															++

SYNTHETIC

PFPE

Successful in more than 80 countries with satisfied customers



setral®



All information in this document is based on our general experience at the date of the publication and thus is merely intended to give general note for possible applications. However, the contents do not guarantee the suitability of a product for an individual case and do not contain any guarantees of characteristics. The variety of possible applications requires to always run corresponding tests by the user before general application. Our products are continuously developed further. Therefore we reserve the right to always change the technical data of our products at any time without prior notice. Misprints and alterations reserved. Copyright: Setral Chemie GmbH (Germany).

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Competence in Lubricants

Setral Chemie GmbH and Sétral S.à.r.l. are each certified according to DIN EN ISO 9001, DIN EN ISO 21469 and DIN EN ISO 14001.