



SPECIAL LUBRICANTS & MAINTENANCE PRODUCTS

Cement industry



setral[®]

Competence in Lubricants



Cement production – extreme requirements for special lubricants

Limestone – the base for manufacturing cement. For this hard work from the rock mining to processed cement, machines and plant equipment are exposed to extreme operation conditions. An efficient and effective maintenance is essential for a high machine availability and thus maximum profitability.

High temperatures, strong vibrations and shock loads challenge lubricants and require much more than standard lubricants.

For more than 50 years, setral® produces special lubricants based on selected base oils and thickener components with state-of-the-art additives. Decades of experience in development, manufacturing and distribution result in a complete portfolio of special lubricants. A precise choice of lubricant for the individual machine component is essential to ensure economical and efficient maintenance.

setral® optimizes your lubricant use and makes it more sustainable with special lubricants that are available worldwide in high and consistent quality.

The company setral® is certified climate positive.



Crushing

MACHINE	LUBRICATION POINT	PRODUCT	TEMPERATURE RANGE [°C]
CRUSHER	Main bearing	MI-setral-LI/C1-1000 MG	-20 to +150
		MI-setral-CA/C2-400	-25 to +150 (short +180)
	Gearbox	MI-setral-GEAR/EPL ... series	-10 to +120*
		SYN-setral-GEAR/PGW ... series	-35 to +150*
SEPARATOR	Upper and lower bearing	MI-setral-5 B	-25 to +150
		MI-setral-LI/PD 2-400	-20 to +140
		MI-setral-LI/C1-1000 MG	-20 to +150
	Gearbox	MI-setral-GEAR/EPL ... series	-10 to +120*
		SYN-setral-GEAR/PGW ... series	-35 to +150*

* Varies depending on ISO-VG or NLGI

Transport system and silos

MACHINE	LUBRICATION POINT	PRODUCT	TEMPERATURE RANGE [°C]
SLAT CONVEYER BELT CONVEYER	Cardan	MI-setral-LI/PD 2	-30 to +140
		MI-setral-LI/C 2	-20 to +150 (short +180)
	Bearing	MI-setral-CA/C2-180 M	-20 to +160
		MI-setral-CA/C2-400	-25 to +150 (short +180)
SCREW CONVEYER	Drive gearbox	SYN-setral-GEAR/PGW ... series	-35 to +150*
SILOS	Fan bearing	SYN-setral-PU 2	-30 to +140

* Varies depending on ISO-VG or NLGI





Vertical raw mill

MACHINE	LUBRICATION POINT	PRODUCT	TEMPERATURE RANGE [°C]
VERTICAL RAW MILL	Main drive gear	MI-setral-GEAR/EPL ... series	-10 to +120*
		SYN-setral-GEAR/PGW ... series	-35 to +150*
	Main bearing	MI-setral-LI/C ... -1000 MG series	-20 to +150*
		MI-setral-LI/PD ... series	-35 to +140*
		MI-setral-CA/C2-180 M	-20 to +160
	Elastomer roller seals	SYN-setral-PG 814	-40 to +150 (short +160)
		MI-setral-LI/C1-1000 MG	-20 to +150

* Varies depending on ISO-VG or NLGI



Preheating tower

MACHINE	LUBRICATION POINT	PRODUCT	TEMPERATURE RANGE [°C]
PREHEATING TOWER	Drive gearbox	SYN-setral-GEAR/PGW ... series	-35 to +150*
	Axle bearing	MI-setral-LI/C 2	-20 to +150 (short +180)
	Fan bearing	SYN-setral-PU 2	-30 to +140

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Rotary kiln

MACHINE	LUBRICATION POINT	PRODUCT	TEMPERATURE RANGE [°C]
ROTARY KILN	Running ring	SYN-setral-CG FLUID	-20 to +1000
	Thrust roller bearing / Support roller bearing/ Pinion bearing	MI-setral-LI/C1- 1000 MG (greased)	-20 to +150
		MI-setral-GEAR/EPL ... series (oil lubricated)	-10 to +120*
		SYN-setral-GEAR/PGW ... series (oil lubricated)	-35 to +150*
	Open gears	MI-setral-OG/0-800	-20 to +150
		MI-setral-AL/CO-500 G	-30 to +120 (short +150)

* Varies depending on ISO-VG or NLGI



Clinker cooler

MACHINE	LUBRICATION POINT	PRODUCT	TEMPERATURE RANGE [°C]
CLINKER COOLER	Grates bearings	SYN-setral-PU 460	-30 to +180 (short +200)
		MI-setral-PU 460	-20 to +180
	Fan bearing	SYN-setral-PU 2	-40 to +180
	Gears	MI-setral-GEAR/EPL ... series	-10 to +120*

* Varies depending on ISO-VG or NLGI



setral® Technical Training Hydraulic vs. non-hydraulic cement

Talking about cement usually hydraulic cement is meant. Hydraulic cement hardens when water is added by hydration of the clinker minerals. This reaction emits carbon dioxide. Hydraulic cement can be used under water.

Much less common is non-hydraulic cement that hardens by carbonation in contact with carbon dioxide. Such slaked lime - chemically calcium hydroxide - can only be exposed to air.



Cement mill and roller press

MACHINE	LUBRICATION POINT	PRODUCT	TEMPERATURE RANGE [°C]
ROLLER PRESS	Main bearing	MI-setral-LI/C1-1000 MG	-20 to +150
	Planetary gear	MI-setral-GEAR/EPL ... series	-10 to +120*
SYN-setral-GEAR/PGW ... series		-35 to +150*	
CEMENT MILL	Roller bearings	MI-setral-LI/C1-1000 MG	-20 to +150
	Pillow block		
	Reduction coupling		
	Rotary joints	MI-setral-CA/C2-180 M	-20 to +160
	Scrapper bearing / Bevel gearbox	MI-setral-GEAR/EPL ... series	-10 to +120*
		SYN-setral-GEAR/PGW ... series	-35 to +150*
	Coupling bearing	MI-setral-GEAR/EPL ... series	-10 to +120*

* Varies depending on ISO-VG or NLGI



setral® lubricants for maintenance and assembly

LUBRICATING PURPOSE / COMPONENT	PRODUCT	TEMPERATURE RANGE [°C]
Assembly paste / protection for fretting corrosion	MI-setral-HPP 1200 S	-30 to +1200
Screw compressors	COVA-setral-SMG ... series	-35 to +120* (short to +150)
Piston compressors	COVA-setral-SE ... series	-30 to +200*
Bearing in pumps	MI-setral-LI/C 2	-20 to +150 (short to +180)
Joints of loading arms	MI-setral-CA/C2-180 M	-20 to +160
Penetrating oil / rust remover	GLIS-setral-SQ	-20 to +80
	GLIS-setral-SQ (Spray)	
Cleaner	CLEAN-setral-AN/U	-40 to +40
	CLEAN-setral-AN/U (Spray)	
Ropes	setral PLASTOLUB GK	-20 to +80
	setral PLASTOLUB GK (Spray)	
	SYN-setral-CA 2 B	
Chains	SYN-setral-54 NF (Spray)	-20 to +180

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Successful in more than 90 countries with satisfied customers



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