



# COVA-setral-PGB/G series

Synthetic compressor oils based on polyalkylene glycol for closed gas compressors used to compress natural and liquefied gases

COVA-setral-PGB/G series is a high-performance synthetic lubricant based on polyalkylene glycol. It is designed for closed gas compressors for hydrocarbon and chemical gases, where the crankcase and bearings operate in a gas-filled atmosphere. Under these conditions, the gas is readily soluble in mineral oil based lubricants, resulting in a significant decrease in viscosity and performance of the lubricant due to dilution. By using a product of the COVA-setral-PGB/G series, this problem can be solved, as the gases are much less soluble in the synthetic lubricant offered by setral®.

## Particularly suitable for:

- Use in capsuled gas compressors in which crankcase and bearings are surrounded by gas
- Use in piston compressors for natural and process gas

## Typical application areas:

- Oil and gas industry
- Gas transport and storage (refineries, pipelines, marine ships, etc.)
- Chemical and petrochemical industry



**setral®**

## Competence in Lubricants

setral® has been researching, developing and manufacturing special high-performance lubricants for more than 55 years. Represented in over 80 countries we serve almost all industries. As your innovative and agile technology partner we leverage our R&D and production capabilities to meet your specific requirements.

# COVA-setral-PGB/G series

Synthetic compressor oils based on PAG

For more information about individual products, technical or safety data sheets, please visit our website or contact our experts: [info@setral.net](mailto:info@setral.net)



PRODUCT	BASE OIL	ISO VG / VISCOSITY AT 40 °C	TEMPERATURE RANGE [°C]	DESCRIPTION	SPECIAL
<b>COVA-setral-PGB/G ... series</b>	PAG	100 150 190	-35 to +175 -35 to +175 -35 to +180	Fully synthetic compressor oil for gas compressors in which crankcase and bearings are surrounded by gas. Suitable for a wide range of gases including ammonia, vinyl chloride and butadien	COVA-setral-PGB/G 190: Burckhardt Compression approval (see box).

## Features and benefits compared to mineral oils:

- Improved wear protection due to reduced gas solubility
- Extended lubricant lifetime
- Improved compressor efficiency
- Extended oil change intervals
- Reduced foaming tendency
- Multi-gas service for various gases, including vinyl chloride and butadien
- Does not promote butadiene dimerization and deposition of solid residues
- Compatible with common seal materials such as NBR, FKM, Silicone and EPM

## Can be used for following gases:

- Liquefied petrol gases like propane and butane
- Liquefied natural gases like methane and ethane
- Hydrocarbon gases like ethylene, propylene and butylene
- Chemical gases like ammonia, vinyl chloride and butadiene



## Who is Burckhardt Compression or why is their approval so valuable?

Burckhardt Compression is one of the largest manufacturers of reciprocating compressors in the world and is recognized as the only compressor manufacturer offering a complete range of reciprocating, process gas, hyper and fuel gas compressors. It's global sales and service network provides a local presence in more than 80 countries.

Burckhardt Compression's customized compressor systems are used in the upstream oil and gas industry, in gas transport and storage, in refineries, in the chemical and petrochemical industry and in the industrial gas sector.

**Burckhardt Compression is the only manufacturer of all types of compressors, its recommendation is a valuable selling point.**

## Industrial compressors - setral® portfolio at a glance

APPLICATION		PAG	PAO	ESTER
<b>INDUSTRIAL AIR COMPRESSION</b>	Rotary screw	<b>COVA-setral-PGB/A*</b> ISO VG 32, 46, 68	<b>COVA-setral-SMG</b> ISO VG 32, 46, 68	-
	Rotary vane		<b>COVA-setral-SHF FD</b> ISO VG 32, 46, 68	-
	Reciprocating (piston)	-	<b>COVA-setral-SHF FD</b> ISO VG 100, 150	<b>COVA-setral-SE</b> ISO VG 100, 150
<b>NATURAL GAS &amp; CHEMICAL COMPRESSION</b>	Reciprocating (piston)	<b>COVA-setral-PGB/G</b> ISO VG 100, 150, 190 <sup>1</sup>	-	-
<b>INDUSTRIAL APPLICATION</b>	Vacuum pumps	-	<b>COVA-setral-SHF FD</b> ISO VG 100, 150	<b>COVA-setral-SE</b> ISO VG 100, 150

\* Remark: COVA-setral-PGB/A series is currently in final stage of development! <sup>1</sup> not ISO-VG, but viscosity at 40 °C (mm<sup>2</sup>/s)



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setral® offsets the greenhouse gases generated by its business activities with climate certificates in double the amount.

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