



Magna™ PG Range

Gas compressor lubricants

Description

Castrol Magna™ PG (previously called Cresta PG) is a range of polyalkylene glycol based compressor lubricants, formulated expressly to lubricate gas compressors. The ability to withstand dilution by dissolved hydrocarbons allows these lubricants to give excellent protection in oil-flooded screw compressors and in the cylinders of reciprocating compressors. The formulation provides better viscosity retention due to its high viscosity index and increased resistance to hydrocarbon dilution, compared to mineral and polyalphaolefin variants. It contains additives to protect equipment from wear, rust & hydrogen sulphide corrosion.

To select the optimum viscosity variant, a number of factors need to be considered, including:

- The composition of the gas being compressed
- The operational expectations of the compressor
- The Original Equipment Manufacturer's (OEM's) viscosity requirements at the maximum temperatures for the lubricated components

Please consult your Castrol technical service engineer with this information for assistance.

Application

Cylinder and Gland Packing lubrication of reciprocating compressors.
Oil flooded rotary screw compressors.

Advantages

Magna PG compressor oils can provide the following key advantages compared to mineral and polyalphaolefin (PAO) based lubricants:

- Viscosity retention.
- Longer compressor life because of improved film strength
- Reduced wear leading to increased operational reliability
- High viscosity index will contribute to improved lubrication and reduced wear, especially at elevated temperatures

Typical Characteristics

Name	Method	Units	PG 100	PG 150	PG 220
ISO Viscosity Grade	-	-	100	150	220
Density @ 20°C / 68°F	ISO 12185 / ASTM D4052	kg/m ³	1042	1046	1050
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	102.4	150.7	219.7
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	20.45	29.21	41.48
Viscosity Index	ISO 2909 / ASTM D2270	-	226	235	244
Pour Point	ASTM D5950	°C (°F)	-51 (-60)	-45 (-49)	-45 (-49)
Flash Point, open cup method	ISO 2592 / ASTM D92	°C (°F)	249 (480)	268 (514)	240 (464)
Fire Point, open cup method	ISO 2592 / ASTM D92	°C (°F)	271 (520)	286 (547)	270 (518)
Rust test – distilled water	ISO 7120 / ASTM D665A	rating	Pass	Pass	Pass
Copper corrosion (3hrs@100°C/ 212°F)	ISO 2160 / ASTM D130	rating	1b	1b	1b

The above figures are subject to usual manufacturing tolerances and do not constitute a specification.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

This product was previously called Cresta PG. The name was changed in 2015.

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