



TOUGHWORKER

KS P180 – IF HIGH WEAR RESISTANCE IS REQUIRED

FEATURES AND CHARACTERISTICS

- For maintenance-free and dry applications
- Dry running as well as oil and grease lubrication are possible
- Ideal for fast linear as well as rotating and oscillating movements
- Ideal for high edge loads
- Very good wear resistance

OPERATING CONDITIONS

Dry	●	●	●
Oil-lubricated	●	●	●
Greased	●	●	○
Water-lubricated	●	○	○

TYPICAL APPLICATIONS

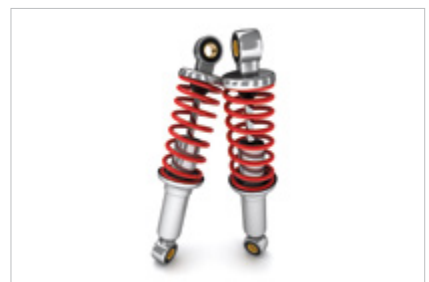
Fluid pumps



Compressors



Shock absorbers



Additional applications:

- Actuators
- Steering systems
- Solenoid applications
- Seat adjusters
- Hydraulic applications
- Pneumatic applications
- and many more

For further applications please contact our technical support.

PASSION FOR TECHNOLOGY.

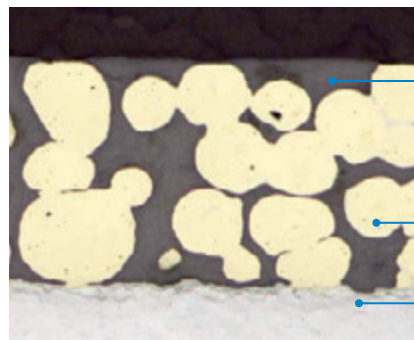
BEARING STRUCTURE

Sliding elements

- Steel back (DC04)
- Porous sintered bronze layer
- Solid lubricant PTFE with BaSO₄ and other fillers

Characteristics

- Solid lubricant provides a run-in layer
- Total layer thickness <0.4 mm



PTFE
+ BaSO₄
+ additional fillers

Bronze layer

Steel back

MATERIAL CHARACTERISTICS

Characteristic values		Value	Unit
Permissible specific bearing load p	Static	250	[N/mm ²]
	Very low sliding speed	160	[N/mm ²]
	Oscillating, vibrating	56	[N/mm ²]
Permissible sliding speed	Dry running	2	[m/s]
	Wet running	10	[m/s]
Permissible temperature range		-200 to +280	[°C]
Thermal expansion coefficient		11 * 10 ⁻⁶	[1 / K]
Thermal conductivity		>40	[W / (m * K)]

QUALITY

- The complete manufacturing process is monitored and controlled by a proven set of quality assurance measures

CERTIFICATES

- Made in Germany
- ISO9001, ISO14001, ISO50001, IATF 16949

SUSTAINABILITY



CONTACT

bearing@de.rheinmetall.com
Phone: +49 6227-5 60

KS Gleitlager GmbH does not assume any liability for the completeness of the data presented in this material brochure. It is exclusively up to the customer to form his opinion about the characteristics of the material and its adequacy for the purposes intended by the customer. KS Gleitlager GmbH would also like to stress that any information given in this materials brochure does not constitute a legal guarantee for the appearance, characteristics and workmanship nor does it represent a warranted quality.