

# P180

# HIGH PERFORMANCE

## NEW LEAD-FREE PLAIN BEARING MATERIAL P180

HIGHLY RESILIENT, RESISTANT, SUITABLE FOR UNIVERSAL USE

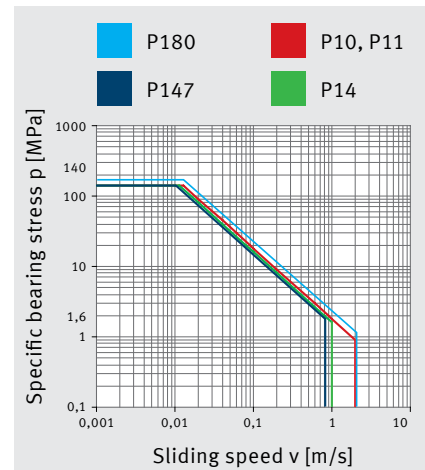
### P180 – A LEAD-FREE HIGH-PERFORMANCE MATERIAL

- Permaglide® P180 represents a further development of the tried-and-tested P14. It fully meets and surpasses P14's characteristics profile.
- The material P180 can also be used in tribological systems in which, to date, only materials containing lead (e.g. P10) have been used.

### P180 SURPASSES ALL PREVIOUS STANDARDS

High-quality composition, improved tribological characteristics:

- P180 surpasses all Permaglide® standard materials in terms of pv value.
- P180 is especially wear-resistant thanks to the use of barium sulphate.
- P180 can be used for both dry and lubricated applications.
- Thanks to its higher resistance to corrosion, P180 can also be used in water.



### SWITCH TO MATERIAL KS P180 – ADVANTAGES AND RATIONALE



#### IMPROVED PROPERTIES OF P180

compared to P14 and to the lead-containing P10



#### MULTIFUNCTIONAL UNIVERSAL MATERIAL

Extremely broad application field



#### GENUINE PermagLIDE®

Designed in Germany



#### ENVIRONMENT, HEALTH, EMPLOYEE SAFETY

lead-free material meets market requirements and legal requirements



#### SIMPLIFIED PRODUCT RANGE

one material can replace several materials



#### ISO-CERTIFIED

Highest quality standards

# HIGH PERFORMANCE

## PLAIN BEARING MATERIAL P180 – FOR UNIVERSAL USE: DRY, LUBRICATED AND HYDRODYNAMIC

### PREFERRED AREAS OF APPLICATION

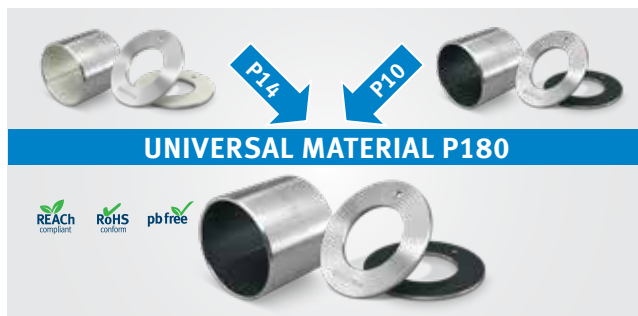
- Operation in dry, lubricated and hydrodynamic running conditions
- Applications in which lead-free materials are required
- Rotating or oscillating movements up to a velocity of 2 m/s in dry running or 10 m/s in hydrodynamic operation
- Linear movements
- Temperature range -200 °C to 280 °C

### APPLICATION EXAMPLES

Fluid pumps, compressors, shock absorbers, actuators, steering systems, solenoid valves, seat adjusters, hydraulic applications, pneumatic applications and lots of other applications



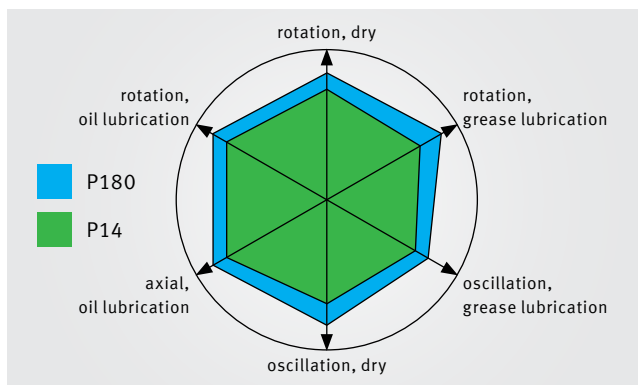
## SIMPLIFIED PRODUCT RANGE – LESS EFFORT, LOWER COSTS



### ADVANTAGES OF P180 FOR DEALERS

- 1 material that can replace 2 materials\*
- simplified choice of materials
- optimised warehousing
- lead-free – environmentally friendly and conforms to the law

### CONSIDERABLE EFFORT REDUCTION



P180 and P14 movement types in comparison

\* P2 material range and special materials retained

### ADVANTAGES OF P180 FOR USERS

- lead-free – environmentally friendly and conforms to the law
- 1 material\* for dry and lubricated applications
- high durability
- extremely resistant
- maintenance-free

### P180 – THE HIGH-PERFORMANCE ALLROUNDER