PERMAGLIDE®



SERVICE INFORMATION

PERMAGLIDE® PLAIN BEARINGS MATERIALS AND APPLICATIONS

MATERIAL PERMAGLIDE® P1 - MAINTENANCE-FREE, UP TO 280 °C

Material	Structure	Illustration	Characteristics	Applications (examples)
Highly resilient and resistant P180 Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous tin bronze PTFE, BaSO₄ 		 Very low stick-slip tendency Extremely resilient, especially with edge wear Low and constant friction value Very good wear resistance in dry running and wet running Excellent chemical resistance 	 Fluid pumps Compressors Shock absorbers Actuators Steering systems Solenoid applications Seat adjusters Hydraulics Pneumatics
High Performance P147* Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous bismuthtin bronze PTFE, BaSO₄ 		 Good corrosion protection High chemical resistance Salt spray tested 	 Applications with swivel motion Windscreen wipers Hinges
All-rounder P10 Reduced PFOA	 Steel back Porous lead bronze PTFE, Pb 		 Very good dry running properties Good emergency running properties Can be used in oil 	 Fire damper Gear pump Wind turbine systems Packaging machines Agricultural machines
High pv value P11 Reduced PFOA	 Bronze back Porous tin bronze PTFE, Pb 		 Good thermal conductivity For high velocities Good corrosion protection Very good emergency running properties 	 Outdoor applications Construction machines Maritime applications, e.g. pumps/turbines, chains for flood gates/sluices, flaps and hinges

MATERIAL PERMAGLIDE® P1 – MAINTENANCE-FREE, UP TO 250 °C

Material	Structure	Illustration	Characteristics	Applications (examples)
High Performance P141* Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous tin bronze PTFE, ZnS, CF, additives 		 Suitable for heavy loads in oil High wear resistance 	 Hydrodynamic systems Dampers Pumps Compressors
High Performance P170* Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous tin bronze PTFE, additives 		 Particularly suitable for oscillatory motion High wear resistance with micro-movement 	 Dual mass flywheel Belt tensioner Vibration damper

* On request







MATERIAL PERMAGLIDE® P2 - LOW-MAINTENANCE, UP TO 130 °C

Material	Structure	Illustration	Characteristics	Applications (examples)
Lubricated low friction value P200 Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous tin bronze PVDF, BaSO₄, friction and wear-reducing additives 		 Ready to install with oil distributing pockets Good damping characteristics High chemical resistance 	DampersAgitators
Wet runner P202*, P203* Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous tin bronze PVDF, BaSO₄, friction and wear-reducing additives 		 P202: with machining allowance, smooth surface P203: ready to install, smooth surface 	 Hydrodynamic applications Hydraulic applications Pneumatic applications Radial piston machines
Stable P209* Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous tin bronze PVDF, BaSO₄, friction and wear-reducing additives 		 Reduced sliding layer thickness Increased durability 	High-pressure pumpsGearbox bearings

MATERIAL PERMAGLIDE® P2 - LOW-MAINTENANCE, UP TO 200 °C

Material	Structure	Illustration	Characteristics	Applications (examples)
Durable in fuel P213* Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous tin bronze PEEK, CF, friction and wear-reducing additives 		 Ready to install, without oil distributing pockets High thermal stability Extremely high wear resistance 	 Hydrodynamic applications in diesel fuel Fuel injection pumps
Adaptive P240*, P243* Unleaded PFOA-free REACH ROHS pbfree	 Steel back Porous tin bronze PA, friction and wear-reducing additives 		 Continuous operating temperature up to +150°C (short-term up to +200°C) Adaptable Dampable 	 Hydrodynamic applications Brakes Machine tools Construction machines Kingpins Pumps Chassis Industrial trucks

* On request

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