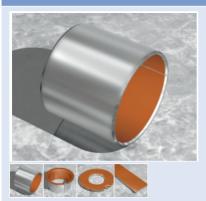


an EnPro Industries company

DP4™ Bearing Material



Characteristics

- Compliant with the European Union's End of Life Vehicles (ELV) directive 2000/53/EC on the elimination of hazardous materials in the construction of passenger cars and light trucks
- Compliant with the European Union Directive 2002/ 95/EC concerning the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Regulation)

Lubricated conditions

- Good wear resistance and low friction performance over a wide range of load, speed and temperature conditions
- Very good performance in oil lubricated heavy duty hydraulic applications
- DP4™ offers benefits in applications where corrosion of the lead in DU® may occur
- DP4™ offers improved wear and friction performance along with good chemical resistance compared to DU®

Dry conditions

- DP4[™] perforns well dry under light duty applications
- Particularly suitable for intermittent operation under reciprocating or oscillating movements

Applications

Automotive

Braking systems, clutches, gearbox and transmissions, hinges: door, bonnet, boot, cabriolet roof tops, pedals; pumps: axial piston, radial piston, gear and vane; seat mechanisms, steering systems, struts and shock absorbers, wiper systems, etc.

Industrial

Aerospace, agricultural equipment, construction equipment, food and beverage, material handling equipment, forming machines: metal, plastic and rubber; office equipment, medical and scientific equipment, packaging equipment, pneumatic and hydraulic cylinders, pumps and motors, railroad and tramways, textile machinery, valves, etc.

Composition & Structure	Operating Conditions		Availability
Metal-polymer composite material Steel + porous bronze sinter + PTFE + fillers	dry oiled greased water process fluid	good very good good fair good	Ex Stock

Microsection	Bearing Properties	Unit	Value	
Sliding layer PTFE + fillers	Dry			
	Maximum sliding speed v	m/s	2.5	
	Maximum pv factor	MPa x m/s	1.0	
Porous bronze sinter	Coefficient of friction f	-	0.04-0.25	
Steel backing	Oil lubrication			
	Maximum sliding speed v	m/s	5.0	
	Maximum pv factor	MPa x m/s	10.0	
	Coefficient of friction f	-	0.02-0.08	
	General			
	Maximum temperature T _{max}	°C	+280	
	Minimum temperature T _{min}	°C	-200	
	Maximum load p static	MPa	250	
	Maximum load p dynamic	MPa	140	
	Shaft surface finish R _a - dry operation	μm	0.4±0.1	
	Shaft hardness	НВ	>200	