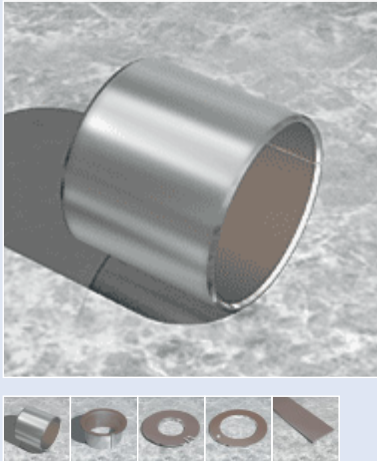
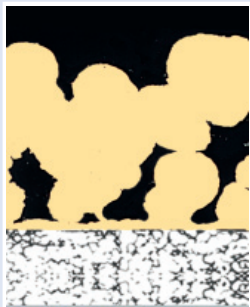


DP31™ Bearing Material	Characteristics	Applications
	<ul style="list-style-type: none"> Compliant with the European Union's End of Life Vehicles (ELV) directive 2000/53/EC on the elimination of hazardous materials in the construction of passenger cars and light trucks Compliant with the European Union directive 2002/95/EC concerning the restriction of the use of certain hazardous substances in electrical and electronic equipment (the RoHS Regulations) <p>Lubricated conditions</p> <ul style="list-style-type: none"> Excellent wear resistance and low friction performance in lubricated hydraulic applications Excellent chemical resistance Excellent cavitation and flow erosion resistance Good fatigue strength 	<p>Automotive Air conditioning compressors, gearbox and transmissions, heavy duty struts and shock absorbers, high performance pumps: axial piston, radial piston, gear, vane, etc.</p> <p>Industrial Compressors: scroll and reciprocating; pneumatic and hydraulic cylinders, high performance pumps axial piston, radial piston, gear, vane, etc.</p>

Composition & Structure	Operating Conditions	Availability										
<p>Metal-polymer composite material Steel + porous bronze sinter + PTFE + fluoropolymer + fillers</p>	<table border="1"> <tr> <td>dry</td> <td>fair</td> </tr> <tr> <td>oiled</td> <td>very good</td> </tr> <tr> <td>greased</td> <td>fair</td> </tr> <tr> <td>water</td> <td>fair</td> </tr> <tr> <td>process fluid</td> <td>good</td> </tr> </table>	dry	fair	oiled	very good	greased	fair	water	fair	process fluid	good	<p>Ex Stock</p> <ul style="list-style-type: none"> N/A <p>To order</p> <ul style="list-style-type: none"> Cylindrical bushes, flanged bushes, thrust washers, flanged washers, strip, non-standard parts
dry	fair											
oiled	very good											
greased	fair											
water	fair											
process fluid	good											

Microsection	Bearing Properties	Unit	Value
 <p>Sliding layer PTFE + fluoro-polymer + fillers</p> <p>Porous bronze sinter</p> <p>Steel backing</p>	<p>Dry</p> <p>Maximum sliding speed v</p> <p>Maximum pv factor</p> <p>Coefficient of friction f</p> <p>Oil lubrication</p> <p>Maximum sliding speed v</p> <p>Maximum pv factor</p> <p>Coefficient of friction f</p> <p>General</p> <p>Maximum temperature T_{max}</p> <p>Minimum temperature T_{min}</p> <p>Maximum load p static</p> <p>Maximum load p dynamic</p> <p>Shaft surface finish R_a *</p> <p>Shaft hardness</p>	<p>m/s</p> <p>MPa x m/s</p> <p>–</p> <p>m/s</p> <p>MPa x m/s</p> <p>–</p> <p>°C</p> <p>°C</p> <p>MPa</p> <p>MPa</p> <p>µm</p> <p>HB</p>	<p>-</p> <p>-</p> <p>-</p> <p>10.0</p> <p>10.0</p> <p>0.01-0.05</p> <p>+280</p> <p>-200</p> <p>250</p> <p>140</p> <p>≤0.05 - ≤0.4*</p> <p>>200</p>

* depending on operating conditions