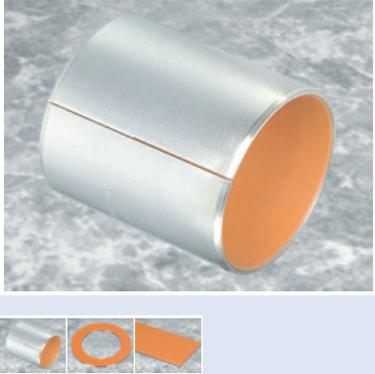


DS™ Bearing Material	Characteristics	Applications
	<ul style="list-style-type: none"> • Self-lubricating bearing material for operation in mixed film lubrication conditions • Suitable for marginally lubricated and dry operating conditions • The sliding layer is machinable (ca. 0.4 mm above bronze sinter layer) • DS™ does not cause fretting corrosion damage to the shaft under low amplitude oscillating movements • Performance is similar to DX® but with lower friction 	<p>Automotive Steering gear, power steering, pedal bushes, seat slides, king-pin bushes, tailgate pivots, brake caliper bushes, etc.</p> <p>Industrial Mechanical handling and lifting equipment, machine slides, hydraulic cylinders, hydraulic motors, ski-lifts, pneumatic equipment, medical equipment, textile machinery, agricultural equipment, scientific equipment, etc.</p>

Composition & Structure	Operating Conditions	Availability										
<p>Metal-polymer composite material Steel + porous bronze sinter + POM modified</p>	<table border="1"> <tr> <td>dry</td> <td>good</td> </tr> <tr> <td>oiled</td> <td>very good</td> </tr> <tr> <td>greased</td> <td>very good</td> </tr> <tr> <td>water</td> <td>poor</td> </tr> <tr> <td>process fluid</td> <td>poor</td> </tr> </table>	dry	good	oiled	very good	greased	very good	water	poor	process fluid	poor	<p>Ex Stock</p> <ul style="list-style-type: none"> • N/A <p>To order</p> <ul style="list-style-type: none"> • Cylindrical bushes, thrust washers, strip and non-standard parts (all forms also available with lubrication indents)
dry	good											
oiled	very good											
greased	very good											
water	poor											
process fluid	poor											

Microsection	Bearing Properties	Unit	Value
 <p>Sliding layer POM + fillers</p> <p>Porous bronze sinter</p> <p>Steel backing</p>	<p>Dry</p> <p>Maximum sliding speed v</p> <p>Maximum p_v factor</p> <p>Coefficient of friction f</p> <p>Grease lubrication</p> <p>Maximum sliding speed v, greased/oiled</p> <p>Maximum p_v factor, greased/oiled</p> <p>Coefficient of friction f, greased/oiled</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 - normal</p> <p>Shaft hardness - for longer service life</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>HB</p>	<p>1.5</p> <p>1.4</p> <p>0.15-0.30</p> <p>2.5 / 10.0</p> <p>2.8 / 10.0</p> <p>0.05-0.10 / 0.03-0.08</p> <p>+130</p> <p>-60</p> <p>110</p> <p>45</p> <p>≤0.4</p> <p>>200</p> <p>>350</p>