DS™

Characteristics

- Marginally lubricated and dry bearing material developed for oscillating conditions
- DS does not cause fretting corrosion damage to the shaft under low amplitude oscillating movements
- Performance is similar to DX, but with lower friction

Applications

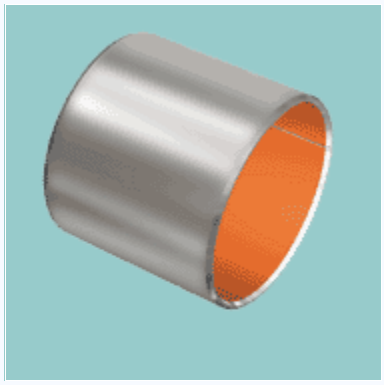
Automotive

- Steering gear
- power steering
- pedal bushes
- seat slides
- king-pin bushes
- tailgate pivots
- brake caliper bushes, etc.

Industrial

- Mechanical handling and lifting equipment
- machine slides
- hydraulic cylinders
- hydraulic motors
- ski-lifts
- pneumatic equipment
- medical equipmen
- textile machinery
- agricultural equipment
- scientific equipment, etc.

DS™



Composition & Structure

Steel + porous bronze sinter + acetal + filler

Operating Conditions

dry	good
oiled	very good
greased	very good
water	fair
process fluid	fair

Availability

Ex Stock

- N/A

To order

- Cylindrical bushes
- thrust washers
- strip and special parts (all forms also available with lubrication indents)

Bearing Properties

Bearing Properties	Unit	Value
Dry		
Maximum sliding speed U	m/s	1.5
Maximum PU factor	N/mm² * m/s = W/mm²	1.4
Coefficient of friction f	–	0.15-0.30
Grease lubrication		
Maximum sliding speed U	m/s	2.5
Maximum PU factor	N/mm² * m/s = W/mm²	2.8
Coefficient of friction f	–	0.05-0.10
General		
Maximum temperature T_{max}	°C	+130
Minimum temperature T_{min}	°C	-60
Maximum load P static	N/mm²	110
Maximum load P dynamic	N/mm²	45
Shaft surface finish Ra	µm	0.4
Shaft hardness	HB	>200
Shaft hardness for longer service life	HB	>350

Microsection

POM + additives

Sinter bronze

Steel