# DX®

## METAL-POLYMER PLAIN BEARINGS GREASE LUBRICATED

compliant RoHS

## 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 equipment, textile machinery, agricultural equipment, scientific equipment, etc.

## CHARACTERISTICS

- DX marginally lubricated bushings for grease or oil lubricated applications
- Standard parts contain grease indents in the sliding layer; plain sliding layer available by request
- Optimum performance under relatively high loads and low speeds
- Suitable for linear, oscillating and rotating movements
- Wide range of parts available from stock

## AVAILABILITY

**Bearing forms available in standard dimensions:** Cylindrical bushes, thrust washers, sliding plates

**Metric bearings and imperial bushings made to order:** standard bushing forms in special dimensions, half-bushings, special shapes obtained by stamping, bearings with locating notches, lubricant holes and machined grooves, customized bushing designs

| BEARING PROPERTIES | | UNITS | VALUE |
|---|---|---|---|
| **GENERAL** | | | |
| **Maximum load, p** | Static | $N/mm^2$ | 140 |
| | Dynamic | $N/mm^2$ | 140 |
| **Operating temperature** | Min | °C | - 40 |
| | Max | °C | 130 |
| **Coefficient of linear thermal expansion** | Parallel to the surface | $10^{-6}/K$ | 11 |
| | Normal to the surface | $10^{-6}/K$ | 29 |
| **GREASE LUBRICATED** | | | |
| **Maximum sliding speed, U** | | m/s | 2.5 |
| **Maximum pU factor** | | $N/mm^2$ x m/s | 2.8 |
| **Coefficient of friction, f** | | | 0.06 - 0.12 |
| **RECOMMENDATIONS** | | | |
| **Shaft surface roughness, Ra** | Lubricated | µm | ≤ 0.40 |
| **Shaft surface hardness** | Normal | HB | > 200 |
| | For longer service life | HB | > 350 |

| OPERATING PERFORMANCE | |
|---|---|
| **Dry** | Poor |
| **Oil lubricated** | Good |
| **Grease lubricated** | Very Good |
| **Water lubricated** | Poor |
| **Process fluid lubricated** | Poor |

| FOR SUPERIOR / LEAD-FREE PERFORMANCE | |
|---|---|
| **Dry** | GAR-MAX / HSG / GAR-FIL / MLG |
| **Water lubricated** | HPM / HPF / DP4-B |
| **Process fluid lubricated** | DP4 / HI-EX / GAR-FIL |

## MICROSECTION