Bimetal-bearing is a bimetal bearing, wrapped of steel sheets with a layer of lead bronze. The standard sizes are fitted with lubrication indents on the running surface. For standard bearings is normally the steel backing copper plated to improve the corrosion resistance. The layer of lead bronze makes it possible to use these bearings with relative long lubrication intervals.

Bimetal-bearing can be manufactured with a thicker lead bronze layer for applications where the bearing has to be machined after mounting. The material of the layer can be fitted to the special needs for the application in question.

**Technical data**

| Material: Copper plated steel backing, lead bronze layer (CuPb10Sn10) |
|-----------------------------|-----------------------------|
| Yield point: (R\(p_{0.2}\)) | ca 240 N/mm² |
| Tensile strength: (R\(m\)) | ca 350 N/mm² |
| Hardness | ca 90 - 110 HB |
| Friction: Depends from the material and the performance of the layer. |
| Max speed: | 3,0 m/s |
| Temperature range: | -100 / +260 °C |

**Tolerances:**

- Housing H7, recommended tolerance for the shaft, h8.
- All customary greases can be used.
- Bimetal-bearings need in most of cases very little additional lubrication.

**Benefits:**

- Rather high load capacity.
- Possibility to machine the inside diameter after mounting.
- High level thermal conductivity.
- Good chemical resistance.
- Wide range of temperature.

**Special:**

- In- or outside lubrication grooves.
- Several alternative layer materials.
- Without lubrication indents.
- Other positions of tolerance.
- Flat or spherical thrust washers.
- Drawing details.

**Typical applications:**

- Hoisting applications.
- Hydraulic cylinders.
- Hydraulic motors.
- Pneumatic.
- Textile machines.
NOTICE THAT THESE BEARINGS ARE NOT IN STOCK!!!