

## Datasheet TEBMT31



TEBMT31 is a wound bimetallic bearing. It is made of high-quality low-carbon steel with a tin-lead-bronze alloy (CuSn10Pb10) sintered on the surface. To prevent wear, the surface of the alloy could be machined with spherical oil bushings to facilitate oil storage. If needed, an anti-erosive coating can be applied to the steel backing. TEBMT31 is a maintenance-free, dry sliding bearing according to ISO 3547. The TEBMT31 bearing can be manufactured in a cylinder or flanged design. Pressure rings, strips or other shapes can also be produced on request. The TEBMT31 bearing has good sliding and wear characteristics and can be used under medium load at medium-high sliding speeds. High impact loads can be tolerated. The bearing is a highly economical solution for many purposes. The BMT31 bearing requires lubrication.

### Application

### Material

Bimetal with steel shell and sintered bronze lining.

### Availability

|                      | Value      | Unit |
|----------------------|------------|------|
| Tube inside diameter | on request |      |
| Sheet thickness      | on request |      |
| Sheet size           | on request |      |
| Inside diameter      | 15-135     | mm   |
| Outside diameter     | 17-140     | mm   |
| Flange diameter      | on request |      |
| Flange height        | on request |      |
| Total length         | okt-80     | mm   |



## TEBMT31 - Specifications

### Physical properties

|  | Test standard | Value | Unit |
|--|---------------|-------|------|
|--|---------------|-------|------|

### Mechanical properties

|                       | Test standard | Value  | Unit        |
|-----------------------|---------------|--------|-------------|
| Hardness              |               | 60-100 | Rockwell HB |
| Dynamic load capacity |               | 150    | MPa         |
| Speed limit v max dry |               | 2,5    | m/s         |
| Speed limit v max oil |               | 10     | m/s         |

### Thermal properties

|                          | Test standard | Value                  | Unit |
|--------------------------|---------------|------------------------|------|
| Min. working temperature |               | on request             |      |
| Max. working temperature |               | 250 (with lubrication) | °C   |

### Friction properties

|                                 | Test standard | Value      | Unit    |
|---------------------------------|---------------|------------|---------|
| Coefficient of friction dynamic |               | 0,05-0,15  | [-]     |
| Max. sliding speed              |               | on request |         |
| Max. Pv-load dry                |               | on request |         |
| Max. Pv-load oil lubricated     |               | 10,00      | MPa*m/s |
| Max. Pv-load on regular greased |               | 2,80       | MPa*m/s |

### Electrical properties

|  | Test standard | Value | Unit |
|--|---------------|-------|------|
|--|---------------|-------|------|