

## Datasheet TEHT



TEHT is a wrapped steel bearing based on a spring plate, treated by quenching and rubbing technique. It is designed to replace the standard bearing steel bushings. It has a medium hardness, high capability of press load, and good resistance to wear. When pressed into the housing, the bushing will be fixed by its elasticity. It is a maintenance-free dry sliding bearing according to DIN 1498/1499. The TEHT bearing has good sliding and wear behavior and can operate under extreme load with medium velocity. High impact loads are possible. The bearing is a very economical solution for many applications. The TEHT bearing has to be lubricated with sufficient lubricant. TEHT spring steel bearing, made of high-grade spring steel, is a wrapped bushing with the treatment of the whole body quenched and the inner surface grinded. The bushing can replace regular bearing steel bushings. It has the advantages of mid hardness, high load enduring, good anti-wear performance. With good elastic, the shaft can be protected from damages of harmful stresses or load. The product can be used in many pans of large-scale construction machinery such as the rocker-arm, grab bucket, etc.

## Application

The product can be used in many pans of large-scale construction machinery such as the rocker-arm, grab bucket, etc.

## Material

Spring steel manganese 65Mn.

## Availability

|                       | Value      | Unit |
|-----------------------|------------|------|
| Tube inside diameter  | on request |      |
| Tube outside diameter | on request |      |
| Length standard       | 500        | mm   |
| Sheet thickness       | on request |      |
| Sheet size            | on request |      |
| Inside diameter       | On request |      |
| Outside diameter      | on request |      |
| Flange diameter       | on request |      |
| Flange height         | on request |      |
| Total length          | on request |      |



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## TEHT - Specifications

### Physical properties

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

### Mechanical properties

|                                       | Test standard | Value      | Unit         |
|---------------------------------------|---------------|------------|--------------|
| Compressive strength static           |               | on request |              |
| Module of elasticity - Youngs modulus |               | on request |              |
| Tensile strength                      |               | on request |              |
| Shear strength                        |               | on request |              |
| Impact strength                       |               | on request |              |
| Hardness                              |               | 42-48      | Rockwell HRC |
| Dynamic load capacity                 |               | 100        | MPa          |

### Thermal properties

|                                  | Test standard | Value      | Unit |
|----------------------------------|---------------|------------|------|
| Min. working temperature         |               | on request |      |
| Max. working temperature         |               | 200        | °C   |
| Intermittent working temperature |               | on request |      |

### Friction properties

|                                 | Test standard | Value      | Unit |
|---------------------------------|---------------|------------|------|
| Coefficient of friction dynamic |               | on request |      |
| Max. sliding speed              |               | 0,1        | m/s  |
| Max. Pv-load dry                |               | on request |      |
| Max. Pv-load oil lubricated     |               | on request |      |
| Max. Pv-load on regular greased |               | on request |      |

### Electrical properties

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