

Datasheet AS TEBMT30



- (1): Hardness rockwell: HRM.
(2): Hardness rockwell: HRC.
(3): Coefficient of friction dynamic: oil/grease.

| Material | |
|----------|---------|
| Material | Bimetal |

| Availability | Unit | Value |
|----------------------------------|-----------|---------------------|
| Mating Axis | Hardness | > 53 ⁽²⁾ |
| Mating Axis | Roughness | Ra=0.32-0.63 |
| Min. inside diameter | mm | 10 |
| Max. inside diameter | mm | 100 |
| Length standard | mm | On request |
| Also available as flange bushing | DIN1494 | |

| Metric Bushing | | Wall Thickness | Outside Chamfer | Inner Chamfer |
|----------------|------------|----------------|-----------------|---------------|
| Type | AS TEBMT30 | 3 | 2±0.6 | 0.6±0.4 |
| I.D. | 35 | 3.5 | 2±0.6 | 0.6±0.4 |
| High | 39 | 4 | 2.5±0.6 | 0.6±0.4 |
| | | 4.5 | 2.5±0.6 | 0.6±0.4 |

| Flange Bushing | | Wall Thickness | Outside Chamfer | Inner Chamfer |
|----------------|-------------|----------------|-----------------|---------------|
| Type | AS TEBMT30F | 2 | 1.2±0.4 | 0.6±0.3 |
| I.D. | 85 | | | |
| High | 89 | | | |

| Physical Properties | Test Standard | Unit | Value |
|------------------------------|---------------|-------------------|-------|
| Density | ASTM D792 | g/cm ³ | - |
| Max. swell in water at 20 °C | ASTM D570 | % | - |

| Mechanical Properties | Test Standard | Unit | Value |
|------------------------------|---------------|-------------------|---------------------|
| Compressive strength static | ASTM D695 | MPa | 150 |
| Compressive strength dynamic | ASTM D695 | MPa | - |
| Module of elasticity | ASTM D695 | MPa | - |
| Tensile strength | ASTM D3410 | MPa | - |
| Shear strength | ASTM D3410 | MPa | - |
| Impact strength | ASTM D256 | kJ/m ² | - |
| Hardness rockwell | ASTM D785 | HRM/HRC | > 53 ⁽²⁾ |

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| Thermal Properties | Test Standard | Unit | Value |
|----------------------------------|---------------|------|----------------------------------|
| Thermal expansion | ASTM D696 | K | $18 \cdot 10^{-6} \text{K}^{-1}$ |
| Min. working temperature | | °C | - |
| Max. working temperature | | °C | - |
| Intermittent working temperature | | °C | - |

| Friction Properties | Test Standard | Unit | Value |
|--|---------------|---------|-----------|
| Linear velocity grease lubricated | | m/s | 2.5 |
| Linear velocity oil lubricated | | m/s | - |
| Max. pv load grease lubricated | | MPa*m/s | 2.8 |
| Max. pv load oil lubricated | | MPa*m/s | - |
| Friction coefficient grease lubricated | | μ | 0.05-0.22 |
| Friction coefficient oil lubricated | | μ | - |