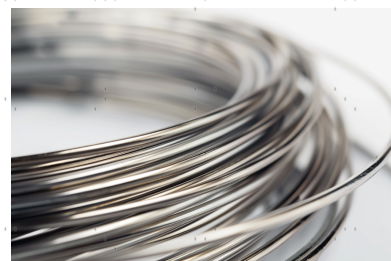


## Technical Data Sheet

**Product Name:** TZM Molybdenum Alloy  
**Catalog No.:** TZM0092  
**Standard:** ASTM B387, ASTM B386  
**Size:** Customized  
**Color:** Grey



### Specification

| Form                             | Size (mm)                                                     | Process                | Surface                                         |
|----------------------------------|---------------------------------------------------------------|------------------------|-------------------------------------------------|
| <b>Wire (straight or rolled)</b> | Dia.: 0.5-4.0<br>Length: Customized                           | -                      | Black oxide;<br>Chemically cleaned              |
| <b>Rod</b>                       | Dia.: 4.0-100<br>Length: <2000                                | Drawing;<br>swaging    | Black oxide;<br>Chemically cleaned;<br>Grinding |
| <b>Plate</b>                     | Thickness: 4.75-50<br>Width: Customized<br>Length: Customized | Forging;<br>rolling    | Chemically cleaned;<br>Grinding                 |
| <b>Tube</b>                      | O.D.: 0.8"-20"<br>Length: Customized                          | Sintering;<br>drilling | Black oxide;<br>Chemically cleaned;<br>Grinding |

### Chemical Composition (% , Max.)

| Element    | Ti   | Zr   | C    | Mo   |
|------------|------|------|------|------|
| <b>TZM</b> | 0.50 | 0.08 | 0.03 | Bal. |

### Properties

| Properties                                   | Unit                              | Value     |
|----------------------------------------------|-----------------------------------|-----------|
| <b>Density</b>                               | g/cm <sup>3</sup>                 | 10.22     |
| <b>Melting Point</b>                         | °C                                | 2500-2600 |
| <b>Modulus of Elasticity</b>                 | GPa                               | 320       |
| <b>Thermal Conductivity</b>                  | W/m-K                             | 126       |
| <b>Elongation</b>                            | %                                 | <20       |
| <b>Coefficient of Expansion (20 – 100°C)</b> | x10 <sup>-6</sup> K <sup>-1</sup> | 5.3       |
| <b>Electrical Resistivity</b>                | μOhmcm                            | 5.3-5.5   |
| <b>Tensile Strength</b>                      | MPa                               | 560-1150  |

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