



### **Molybdenum365 Steel**

The Molybdenum365 steel is developed to meet the demand by the aerospace industry for improved manufacture of durable, close-tolerance tooling for composite components. Molybdenum365 steel is an age-hard enable, low-expansion alloy, strengthened by heat treatment to reach property levels well above those of conventional nickel-iron alloys. The Molybdenum365 steel is the first high-strength, low-expansion alloy produced specifically for tooling applications.

#### **Molybdenum365 Steel Material Properties**

Density	10.28 g/cm <sup>3</sup> (642 lb/ft <sup>3</sup> )
Elastic (Young's, Tensile) Modulus	330 GPa (48 x 10 <sup>6</sup> psi)
Elongation at Break	18 %
Specific Heat Capacity	250 J/kg-K
Strength to Weight Ratio	78 kN-m/kg
Tensile Strength: Ultimate (UTS)	800 MPa (116 x 10 <sup>3</sup> psi)
Tensile Strength: Yield (Proof)	610 MPa (88 x 10 <sup>3</sup> psi)
Thermal Expansion	20.0 μm/m-K

#### **Molybdenum365 Alloy Steel Composition**

Molybdenum (Mo)	99.9 to 100 %
Carbon (C)	0 to 0.01 %
Iron (Fe)	0 to 0.01 %
Silicon (Si)	0 to 0.01 %
Nickel (Ni)	0 to 0.002 %
Nitrogen (N)	0 to 0.002 %
Oxygen (O)	0 to 0.0015 %

(If you don't find what you want, please tell me, the customized products is our big advantages.)

Application: Thermocouple protection tube, sapphire single crystal furnace, high temperature sintering furnace supporting elements, etc

International express: The products with small quantity or lighter weight, the

International express is a better choice. So all above the express company cooperated with us for many years, so saving freight is a big advantages to us.



## SHANGHAI KATALOR ENTERPRISES CO., LTD.

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-Sea shipping way:The products with large quantity or heavier goods, sea transportation will be most appropriate.

Katalor Enterprises Steel supplies the highest quality special purpose metals and alloys for Aerospace/Aviation, Defence, Magnetic, Electronics, Telecommunications, Lighting, Optical, Ceramics, Heat Treating, Medical, and other high-technology industries.Katalor steel have enough stocks for Molybdenum365 steel.If you want to get other information about Molybdenum365 steel, such as the delivery time, ocean freight. as a steel supplier, we will try our best to support you. Sincerely hope the cooperation with you.