

旋压钼坩埚 MOLYBDENUM SPUN CRUCIBLE

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蓝宝石长晶炉部件 Sapphire Growing Furnace Component

化学特性 CHEMICAL CHARACTERISTICS

用于生产旋压钼坩埚的钼粉原料符合以下的化学成分限定：

The chemical composition of molybdenum powder used for producing spun crucible shall conform to the following limits:

钼 Mo	≥ 99.95 %
镁 Mg	≤ 0.001 %
锰 Mn	≤ 0.001 %
镍 Ni	≤ 0.002 %
铝 Al	≤ 0.002 %
铜 Cu	≤ 0.002 %
钛 Ti	≤ 0.002 %
钙 Ca	≤ 0.003 %
硅 Si	≤ 0.003 %
锡 Sn	≤ 0.003 %
铁 Fe	≤ 0.005 %
铬 Cr	≤ 0.005 %
碳 C	≤ 0.005 %



材料结构

常规情况下已消除应力，其他情况需根据具体要求进行考虑

STRUCTURE

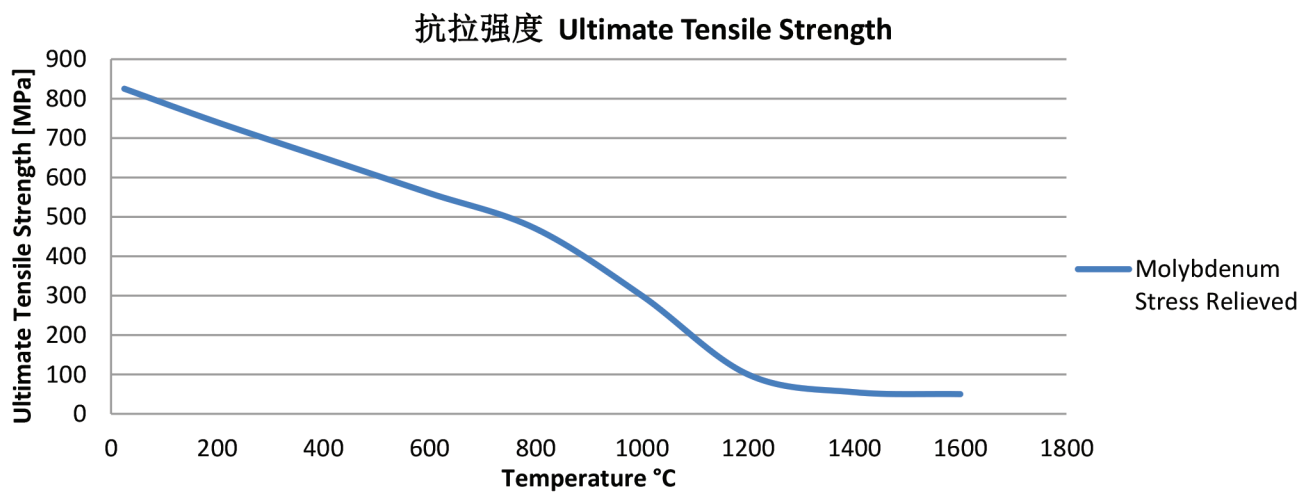
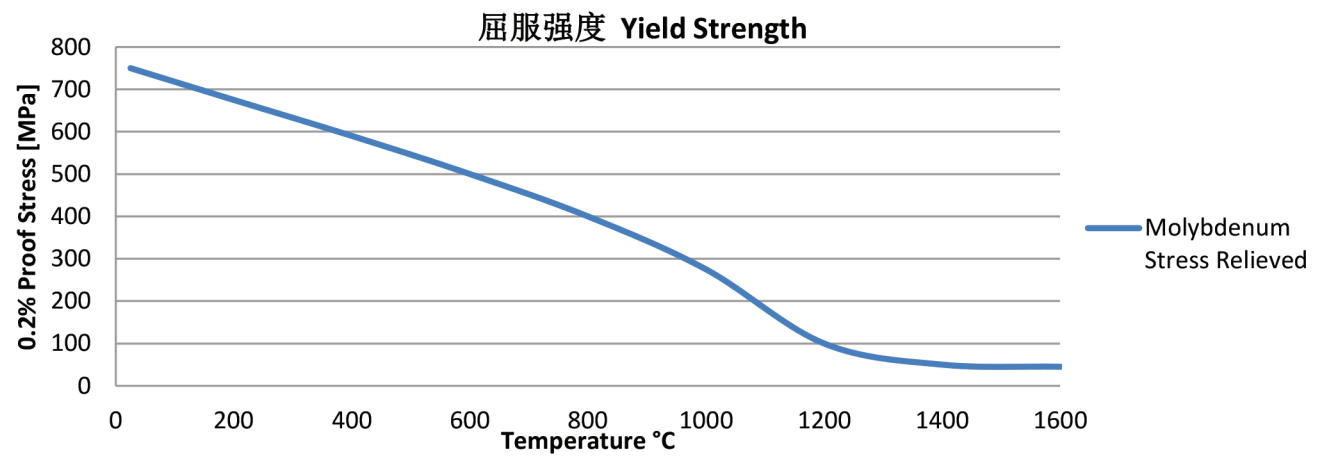
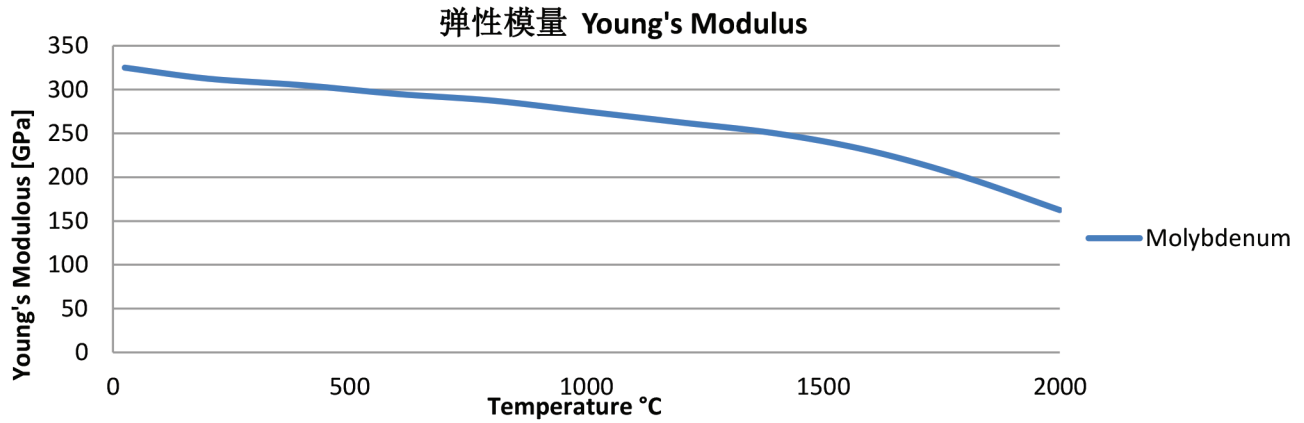
Normally will be stress-relieved, other conditions will be considered upon request.

常温下的物理特性 PHYSICAL PROPERTIES UNDER ROOM TEMPERATURE

密度 Density	10.20 g/ml
熔点 Melting Point	2620 °C
导热率 Thermal Conductivity at 20°C	142[W/(m-K)]
最小拉伸强度 Tensile Strength Min (20°C)	690 MPa
屈服强度 Yield Strength 0.2% offset ,Min(20°C)	550 MPa
弹性模量 Modulus of Elasticity	329 GPa
退火状态维氏硬度 Hardness as Annealed Vickers	250

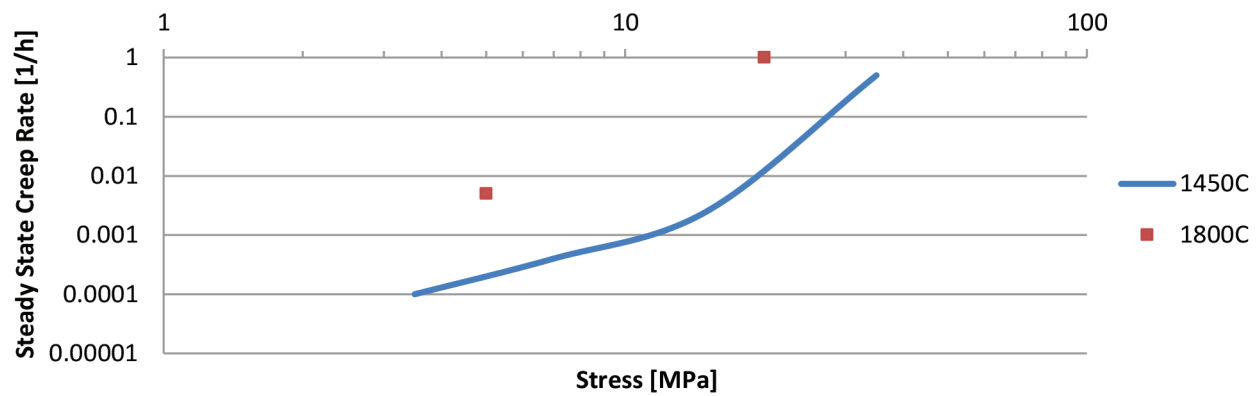
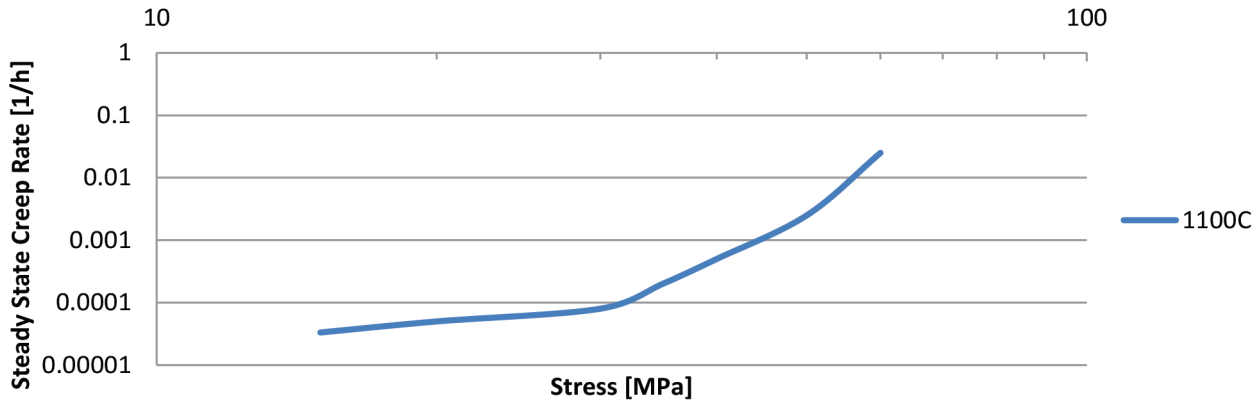
¹ Information on testing methods on request.

温度变化中的物理特性 PHYSICAL PROPERTIES WITH TEMPERATURE CURVE



高温蠕变 CREEP RESISTANCE

- 1100°C: 厚度1.5mm, 1200°C 退火1小时 Thickness 1.5mm, Annealed at 1200°C for 1 hour
- 1450°C: 厚度2.0mm, 1500°C 退火1小时 Thickness 2.0mm, Annealed at 1500°C for 1 hour
- 1800°C: 厚度6.0mm, 1800°C 退火1小时 Thickness 6.0mm, Annealed at 1800°C for 1 hour



尺寸公差 DIMENSIONAL TOLERANCE

底部厚度 Bottom Thickness		外径 Outer Diameter		内径 Inner Diameter		直径公差 Diameter Variation		高度 Height		高度公差 Height Variation	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.236	6	20.83	529.2	19.7	500	+/-0.079	+/-2	19	482.6	+/-0.118	+/-3
0.197	5	20.5	520.7	17	431.8	+/-0.079	+/-2	17	431.8	+/-0.118	+/-3
0.177	4.5	15.35	390	15	381	+/-0.079	+/-2	15	381	+/-0.118	+/-3
0.079	2	4.16	105.7	4	101.6	+/-0.079	+/-2	8	203.2	+/-0.079	+/-3

最大产能 MAX CAPABILITY

投料厚度 Input thickness : 2.0mm – 8.0mm
 产品外径 Out Diameter: 100mm – 600mm
 成品长度 Length of Finished Part: < 1000mm
 投料尺寸 Input Size: < 1500mm

表面状态

提供化学清洗后的哑光表面，也可根据要求提供其他表面处理

SURFACE CONDITION

A matte finish by chemical cleaning, other finishes by request

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