



High Performance Metal Solutions

炉子工作和维修的高温解决方案

H.C.Starck 

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您是否在真空炉中进行大型航空件的热处理，通过控制气氛炉中进行高大产品零件的铜焊，或者对有严格规格要求的医疗和航空产品的热处理。世泰科将为您提供在这些严格应用领域高附加值的产品解决方案。

在热处理和工业炉应用中，世泰科可为您提供钼、钨、钽及其合金（如掺杂钽的钼和TZM合金）等产品，这些材料具有较好的延展性和韧性、高导热导电性能、低的热膨胀系数的特性，以及在最高到2000℃的高温下保持优异力学性能和稳定性。

在医疗、航天、国防和汽车工业领域，我们将为您提供真空热处理、烧结、退火、铜焊和所有高温炉应用的解决方案。

- > 炉子元件
- > 热屏蔽
- > 真空炉材料
- > 热区替换原件
- > 热原材料
- > 钼和钨的轧制产品
- > 钽的热区和炉子元件

物理性能	单位	钼	钽	钨
典型商用纯度		99.95 %	99.9 %	99.95 %
执行标准	ASTM	B-386	B-364	B-760
密度	g/cc	10.2	16.6	19.3
	lbs/cu inch （英制）	0.369	0.600	0.697
熔点	摄氏度°C	2623	3017	3422
	华氏度F	4753	5463	6192
沸点	摄氏度°C	4612	5425	5644
	华氏度F	8335	9797	10211
典型硬度	维氏硬度	230	200	310
室温下热导率	cal/sec/cm ² /cm °C	0.35	0.13	0.397
热膨胀系数	°C x 10 ⁻⁶	4.9	6.5	4.3
电阻率	Microohms-cm	5.7	13.5	5.5
导电率	% IACS	34	13.9	31
抗拉强度	室温环境下	120-200	35-70	100-500
	500 °C	35-85	25-45	134
	1000 °C	20-30	13-17	50-75
弹性模量	室温环境下	45	27	59
	500 °C	41	25	55
	1000 °C	39	22	50

形状尺寸	厚度	宽度	长度
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钼的形状尺寸和公差

板材	0.005" to 0.187" (0.127 mm to 4.750 mm)	24" max. (610 mm)	** 平板材 (2.438 m) or * 板/卷
箔/薄板材	0.001" to 0.0049" (0.0254 mm to 0.12 mm)	1/2" to 12" (12.7 mm to 305 mm)	卷

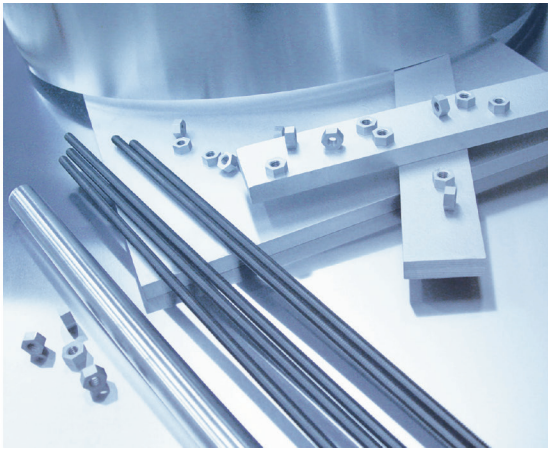
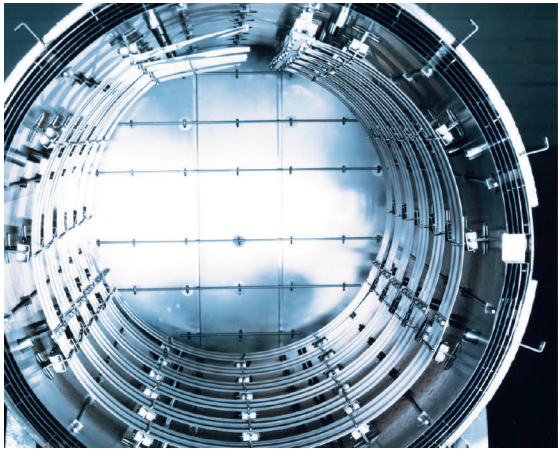
钨的形状尺寸和公差

板材	0.040" to 0.187" (1.016 mm to 4.750 mm)	24" max. (610 mm)	** 平板材 (2.438 m)
板材	0.005" to 0.039" (0.127 mm to 0.991 mm)	12" max. (305 mm)	最大9.144米 (9.144 m) or *卷
箔/薄板材	0.002" to 0.0049" (0.50 mm to 0.12 mm)	1/2" to 6" (12.7 mm to 152.4 mm)	卷

钽形状尺寸和公差

板材	0.015" to 0.060" (0.380 mm to 1.524 mm)	40" (1016 mm)	卷
板材	0.005" to 0.020" (0.127 mm to 0.51 mm)	36" max. (915 mm)	卷
箔/薄板材	0.0005" to 0.005" (0.0127 mm to 0.1270 mm)	12" max. (305 mm)	卷

* 卷材的可能性取决于厚度
 ** 平板材的可用性取决于宽度和厚度



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