



TUNGSTEN POWDER METALLURGY PRODUCTS Tungsten Crucibles

This specification covers sintered and machined Tungsten Crucible Shapes.

CHEMICAL COMPOSITION

Chemical composition for powder lots shall conform to the specification as shown below: (Chemical acceptance is based on the elements listed below.)

Tungsten (By Difference)	min.	99.95 %	
Aluminum	max.	0.002 %	
Calcium	max.	0.003 %	
Chromium	max.	0.002 %	
Copper	max.	0.002 %	
Iron	max.	0.003 %	
Lead	max.	0.002 %	
Magnesium	max.	0.002 %	
Manganese	max.	0.002 %	
Nickel	max.	0.003 %	
Silicon	max.	0.002 %	
Tin	max.	0.002 %	
Titanium	max.	0.002 %	
Carbon	max.	0.005 %	

STRUCTURE



¹ Information on testing methods on request.

MECHANICAL PROPERTIES

Per negotiation at point of inquiry

PHYSICAL CHARACTERISTICS:

Crucible Type	Material		Property	Dimensions (mm))
		Purity (min)	Density*	Outer Diameter	Inner Diameter	Height
Max. 1000 kg Sapphire ingot	Tungsten (W)	99.95%	~17.8 g/cc 92% min	600	500	1000

* can be adjusted to meet customer needs

Standard Tol	Standard Tolerance Range Minimum Tolerance Range		Inner Surface Roughness Ra			
Diameter (mm)	Height (mm)	Diameter (mm)	Height (mm)	Sintered Blank	Lathe Turned	Ground
±0.5	±1.0	±0.3	±1.0	~3.2	Customer Specific	Customer Specific

Hazards identification in Advertising (Directive 67/548/EEC Article 26 and Directive 1999/45/EC Article 13) none.

IDENTIFICATION

The material will be identified with appropriate specification number, ingot or lot number, and nomial size. Shipping containers will be marked with the name of the customer and the purchase order number.

REJECTION

H.C. Starck must receive written notification of rejected material with the resaon for rejection. The right is reserved to inspect rejected material at customer plant for claim validation. The material may be returned only after proper authorization.



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