

High Performance Metal Solutions

MOLYBDENUM POWDER METALLURGY PRODUCTS

Number PD Issue 1-2

PD-7011 1-2021-05-19

Molybdenum Alloy P/M-TZM Powder Metallurgy Plate 2703

Description of Product

This specification covers rolled molybdenum alloy (Molybdenum + 0.5 % titanium + 0.1 % zirconium)

Chemical Characteristics¹⁾

(Mass fraction in % [cg/g]; ppm [µg/g])

The chemical composition of the molybdenum powder used in producing sheet bar shall conform to the following limits:

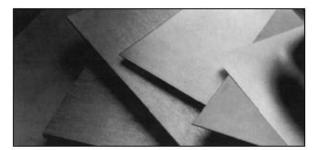
Мо	(By Difference)	min.		99.2	%
Ν	(Sintered Material)	max.		0.002	%
0	(Sintered Material)	max.		0.040	%
		typical		0.025	%
Si		max.		0.005	%
Ni		max.		0.005	%
Fe		max.		0.010	%
С		0.010	-	0.040	%
Zr		0.06	-	0.12	%
Ti		0.40	-	0.55	%

Structure

Plate will be supplied in the stress-relieved condition unless otherwise requested.

Mechanical Properties

Tensile properties can be supplied on request when Purchase Order is placed.



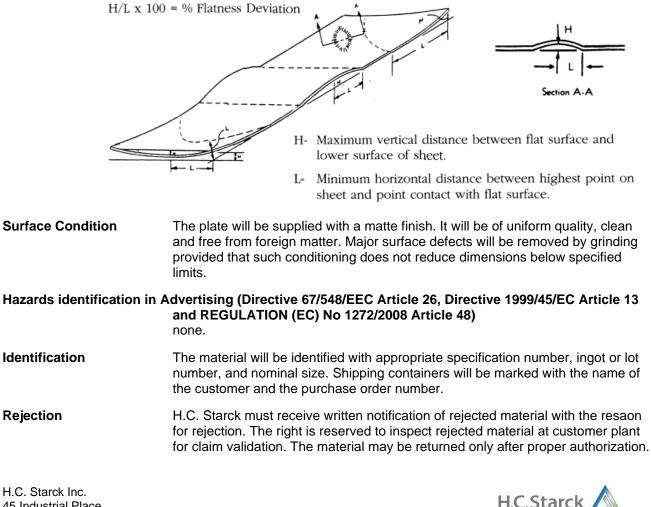
P/M - TZM



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Thickness Thickness (Inches)	Thickness Tolerance (% of Thickness)	Width Tolerance (Inches)	Length Tolerance (Inches)	Flatness Deviation (% Maximum)				
.1875 to .500 Over .500 to 1.000 Over1.000 to 1.500	+ 4 + 5 + 5	+.125 -0 +.125 -0 +.1875 -0	+.125 -0 +.125 -0 +.1875 -0	3 5 6				

Plate will be sheared, abrasive cut, band saw cut, or water jet cut to the tolerances shown.

The deviation from flatness is determined by the formula:



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