

H.C. Starck Molybdenum Alloy PSBT P/M TZM Powder Metallurgy Billet

Category : Metal , Nonferrous Metal , Molybdenum Alloy , Refractory Metal

Material Notes:

Description of Product: This specification covers molybdenum alloy (molybdenum + 0.5% titanium + 0.1% zirconium) pressed and sintered billet. Physical Properties: Density: The as-sintered density will be 94% minimum, based on 10.13 g/cm³. No defect will exceed a No. 8 FBH as determined by ultrasonic inspection. Dimensional Tolerances: Billet will be in the pressed and sintered condition. A machined surface can also be supplied. Information provided by H.C. Starck.

Order this product through the following link:

http://www.lookpolymers.com/polymer_HC-Starck-Molybdenum-Alloy-PSBT-PM-TZM-Powder-Metallurgy-Billet.php

Physical Properties	Metric	English	Comments
Density	9.52 - 10.13 g/cc	0.344 - 0.3660 lb/in ³	as sintered

Component Elements Properties	Metric	English	Comments
Carbon, C	0.010 - 0.040 %	0.010 - 0.040 %	
Iron, Fe	<= 0.010 %	<= 0.010 %	
Molybdenum, Mo	>= 99.2 %	>= 99.2 %	by difference
Nickel, Ni	<= 0.0050 %	<= 0.0050 %	
Nitrogen, N	<= 0.0050 %	<= 0.0050 %	witness billet
Oxygen, O	<= 0.050 %	<= 0.050 %	witness billet
Silicon, Si	<= 0.0050 %	<= 0.0050 %	
Titanium, Ti	0.40 - 0.55 %	0.40 - 0.55 %	
Zirconium, Zr	0.060 - 0.12 %	0.060 - 0.12 %	

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