

## H.C. Starck Molybdenum Hafnium Carbide Powder, Metallurgy Alloy Bar MHC

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

### Material Notes:

Description of Product: This specification covers molybdenum alloy (molybdenum + 1.2% hafnium) wrought bar produced from pressed and sintered metallurgy billet. Structure: The MHC alloy bars can be supplied in the recrystallized condition. Die applications require special processing. Information provided by H.C. Starck.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_HC-Starck-Molybdenum-Hafnium-Carbide-Powder-Metallurgy-Alloy-Bar-MHC.php](http://www.lookpolymers.com/polymer_HC-Starck-Molybdenum-Hafnium-Carbide-Powder-Metallurgy-Alloy-Bar-MHC.php)

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	<= 215	<= 215	mid-radius, recrystallized bar, all sizes; DPH (10 kg)
	255 - 320 @Load 10.0 kg, Diameter 6.35 - 88.9 mm	255 - 320 @Load 22.0 lb, Diameter 0.250 - 3.50 in	mid-radius; DPH (10 kg)
Tensile Strength	>= 689 MPa @Diameter 3.17 - 88.9 mm	>= 100000 psi @Diameter 0.125 - 3.50 in	mid-radius; ASTM E-8
	>= 586 MPa @Diameter 3.17 - 88.9 mm, Strain 0.200 %	>= 85000 psi @Diameter 0.125 - 3.50 in, Strain 0.200 %	mid-radius; ASTM E-8
Elongation at Break	>= 5.0 % @Diameter 3.17 - 88.9 mm	>= 5.0 % @Diameter 0.125 - 3.50 in	mid-radius; ASTM E-8

Component Elements Properties	Metric	English	Comments
Carbon, C	0.050 - 0.15 %	0.050 - 0.15 %	
Hafnium, Hf	0.80 - 1.4 %	0.80 - 1.4 %	
Iron, Fe	<= 0.010 %	<= 0.010 %	
Molybdenum, Mo	>= 98.43 %	>= 98.43 %	balance
Nickel, Ni	<= 0.0050 %	<= 0.0050 %	
Silicon, Si	<= 0.0050 %	<= 0.0050 %	

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