

H.C. Starck Molybdenum Alloy AB-30W Arc-Cast Bar

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

Material Notes:

Description of Product: This specification covers wrought bar of carbon-deoxidized molybdenum 30% tungsten alloy produced from ingots consolidated by the H.C. Starck consumable electrode vacuum-arc-casting process. Structure: The bar will be supplied in the stress-relieved condition. Material can also be supplied in the recrystallized condition. Information provided by H.C. Starck.

Order this product through the following link:

http://www.lookpolymers.com/polymer_HC-Starck-Molybdenum-Alloy-AB-30W-Arc-Cast-Bar.php

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	230 - 290	230 - 290	
	@Load 10.0 kg, Diameter 28.57 - 34.92 mm	@Load 22.0 lb, Diameter 1.125 - 1.375 in	mid-radius; DPH (10 kg)
	230 - 290	230 - 290	
	@Load 10.0 kg, Diameter 34.92 - 73.03 mm	@Load 22.0 lb, Diameter 1.375 - 2.875 in	mid-radius; DPH (10 kg)
	235 - 300	235 - 300	
	@Load 10.0 kg, Diameter 22.2 - 28.57 mm	@Load 22.0 lb, Diameter 0.875 - 1.125 in	mid-radius; DPH (10 kg)
	240 - 300	240 - 300	
	@Load 10.0 kg, Diameter 3.17 - 22.2 mm	@Load 22.0 lb, Diameter 0.125 - 0.875 in	mid-radius; DPH (10 kg)

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Iron, Fe	<= 0.0080 %	<= 0.0080 %	
Molybdenum, Mo	>= 66.9 %	>= 66.9 %	by difference
Nickel, Ni	<= 0.0020 %	<= 0.0020 %	
Nitrogen, N	<= 0.0020 %	<= 0.0020 %	
Oxygen, O	<= 0.0025 %	<= 0.0025 %	
Silicon, Si	<= 0.0080 %	<= 0.0080 %	
Tungsten, W	27 - 33 %	27 - 33 %	

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