

H.C. Starck 3203 Pure Molybdenum APL, Arc-Cast, Low Carbon Plate

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

Material Notes:

Arc-Cast Plate 3203 Low Carbon Description of Product: This specification covers rolled plate of carbon-deoxidized molybdenum produced from ingots consolidated by the H.C. Starck consumable electrode vacuum-arc-casting process. Structure: Plate will be supplied in a stress-relieved condition unless otherwise requested. Information provided by H.C. Starck.

Order this product through the following link:

http://www.lookpolymers.com/polymer_HC-Starck-3203-Pure-Molybdenum-APL-Arc-Cast-Low-Carbon-Plate.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 517 MPa	>= 75000 psi	ASTM E-8
	@Thickness 25.4 - 38.1 mm	@Thickness 1.00 - 1.50 in	
	>= 586 MPa	>= 85000 psi	ASTM E-8
	@Thickness 12.7 - 25.4 mm	@Thickness 0.500 - 1.00 in	
	>= 655 MPa	>= 95000 psi	ASTM E-8
	@Thickness 4.762 - 12.7 mm	@Thickness 0.1875 - 0.500 in	
Tensile Strength, Yield	>= 414 MPa	>= 60000 psi	ASTM E-8
	@Strain 0.200 %, Thickness 25.4 - 38.1 mm	@Strain 0.200 %, Thickness 1.00 - 1.50 in	
	>= 483 MPa	>= 70000 psi	ASTM E-8
	@Strain 0.200 %, Thickness 12.7 - 25.4 mm	@Strain 0.200 %, Thickness 0.500 - 1.00 in	
	>= 552 MPa	>= 80000 psi	ASTM E-8
	@Strain 0.200 %, Thickness 4.762 - 12.7 mm	@Strain 0.200 %, Thickness 0.1875 - 0.500 in	
Elongation at Break	>= 1.0 %	>= 1.0 %	Transverse elongation varies according to the amount of reduction and cross-rolling necessary to roll to the desired size in this thickness range. Typical elongation will exceed 5% in most cases.; ASTM E-8
	@Thickness 25.4 - 38.1 mm	@Thickness 1.00 - 1.50 in	
	>= 2.0 %	>= 2.0 %	Transverse elongation varies according to the amount of reduction and cross-rolling necessary to roll to the desired size in this thickness range. Typical elongation will exceed 5% in most cases.; ASTM E-8
	@Thickness 12.7 - 25.4 mm	@Thickness 0.500 - 1.00 in	

Mechanical Properties	$\geq 10\%$ Metric	$\geq 10\%$ English	Comments ASTM E-8
	@Thickness 4.762 - 12.7 mm	@Thickness 0.1875 - 0.500 in	

Component Elements Properties	Metric	English	Comments
Carbon, C	$\leq 0.010\%$	$\leq 0.010\%$	
Iron, Fe	$\leq 0.010\%$	$\leq 0.010\%$	
Molybdenum, Mo	$\geq 99.97\%$	$\geq 99.97\%$	by difference
Nickel, Ni	$\leq 0.0020\%$	$\leq 0.0020\%$	
Nitrogen, N	$\leq 0.0020\%$	$\leq 0.0020\%$	
Oxygen, O	$\leq 0.0015\%$	$\leq 0.0015\%$	
Silicon, Si	$\leq 0.010\%$	$\leq 0.010\%$	

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