H.C. Starck 3202 Pure Molybdenum ASL, Arc-Cast, Low Carbon Sheet

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

Material Notes:

Arc-Cast Sheet 3202 Low CarbonDescription of Product: This specification covers rolled sheet of carbon-deoxidized molybdenum produced from sheet bar consolidated by the H.C. Starck consumable electrode vacuum-arc-casting process.Structure: Bar 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-3202-Pure-Molybdenum-ASL-Arc-Cast-Low-Carbon-Sheet.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 689 MPa @Thickness 1.52 - 2.54 mm	>= 100000 psi @Thickness 0.0600 - 0.100 in	ASTM E-8
	>= 689 MPa @Thickness 2.54 - 4.75 mm	>= 100000 psi @Thickness 0.100 - 0.187 in	ASTM E-8
	>= 724 MPa @Thickness 0.508 - 1.52 mm	>= 105000 psi @Thickness 0.0200 - 0.0600 in	ASTM E-8
	>= 758 MPa @Thickness 0.127 - 0.254 mm	>= 110000 psi @Thickness 0.00500 - 0.0100 in	ASTM E-8
	>= 758 MPa @Thickness 0.254 - 0.508 mm	>= 110000 psi @Thickness 0.0100 - 0.0200 in	ASTM E-8
Tensile Strength, Yield	>= 552 MPa @Strain 0.200 %, Thickness 1.52 - 2.54 mm	>= 80000 psi @Strain 0.200 %, Thickness 0.0600 - 0.100 in	ASTM E-8
	>= 552 MPa @Strain 0.200 %, Thickness 2.54 - 4.75 mm	>= 80000 psi @Strain 0.200 %, Thickness 0.100 - 0.187 in	ASTM E-8
	>= 586 MPa @Strain 0.200 %, Thickness 0.508 - 1.52 mm	>= 85000 psi @Strain 0.200 %, Thickness 0.0200 - 0.0600 in	ASTM E-8
	>= 621 MPa @Strain 0.200 %,	>= 90000 psi @Strain 0.200 %,	ASTM E-8

Mechanical Properties	Metric	English	Comments
	Thickness 0.127 - 0.254 mm	Thickness 0.00500 - 0.0100 in	
	>= 621 MPa @Strain 0.200 %, Thickness 0.254 - 0.508 mm	>= 90000 psi @Strain 0.200 %, Thickness 0.0100 - 0.0200 in	ASTM E-8
Elongation at Break	>= 5.0 % @Thickness 0.127 - 0.254 mm	>= 5.0 % @Thickness 0.00500 - 0.0100 in	ASTM E-8
	>= 6.0 % @Thickness 0.254 - 0.508 mm	>= 6.0 % @Thickness 0.0100 - 0.0200 in	ASTM E-8
	>= 10 % @Thickness 0.508 - 1.52 mm	>= 10 % @Thickness 0.0200 - 0.0600 in	ASTM E-8
	>= 14 % @Thickness 1.52 - 2.54 mm	>= 14 % @Thickness 0.0600 - 0.100 in	ASTM E-8
	>= 18 % @Thickness 2.54 - 4.75 mm	>= 18 % @Thickness 0.100 - 0.187 in	ASTM E-8
Bend Radius, Minimum	2.0 t @Thickness <=1.65 mm	2.0 t @Thickness <=0.0650 in	Bend Severity 90Â°, specimens at least 1" by 2", transverse direction

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

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