

H.C. Starck Pure Molybdenum, Sheet Premium Grade PS-100-2

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

Material Notes:

Description of Product: Rolled molybdenum sheet produced from pressed and sintered powder metallurgy sheet bar. Structure: Sheet 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-Pure-Molybdenum-Sheet-Premium-Grade-PS-100-2.php

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

Mechanical Properties	0.508 mm Metric	0.0200 in English	Comments
	>= 662 MPa	>= 96000 psi	
	@Strain 0.200 %, Thickness 0.508 - 1.52 mm	@Strain 0.200 %, Thickness 0.0200 - 0.0600 in	ASTM E-8
Elongation at Break	>= 5.0 %	>= 5.0 %	
	@Thickness 0.127 - 0.254 mm	@Thickness 0.00500 - 0.0100 in	ASTM E-8
	>= 6.0 %	>= 6.0 %	
	@Thickness 0.254 - 0.508 mm	@Thickness 0.0100 - 0.0200 in	ASTM E-8
	>= 10 %	>= 10 %	
	@Thickness 0.508 - 1.52 mm	@Thickness 0.0200 - 0.0600 in	ASTM E-8
	>= 14 %	>= 14 %	
	@Thickness 1.52 - 2.54 mm	@Thickness 0.0600 - 0.100 in	ASTM E-8
	>= 18 %	>= 18 %	
	@Thickness 2.54 - 4.75 mm	@Thickness 0.100 - 0.187 in	ASTM E-8
Bend Radius, Minimum	1.0 t	1.0 t	Bend Severity 90°, specimens at least 1" by 2", transverse direction
	@Thickness <=3.17 mm	@Thickness <=0.125 in	
	1.0 t	1.0 t	Bend Severity 180°, specimens at least 1" by 2", transverse direction
	@Thickness <=1.02 mm	@Thickness <=0.0400 in	
	2.0 t	2.0 t	Bend Severity 90°, specimens at least 1" by 2", transverse direction
	@Thickness <=4.75 mm	@Thickness <=0.187 in	
	2.0 t	2.0 t	Bend Severity 180°, specimens at least 1" by 2", transverse direction
	@Thickness <=2.03 mm	@Thickness <=0.0800 in	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 0.0020 %	<= 0.0020 %	
Calcium, Ca	<= 0.0030 %	<= 0.0030 %	
Carbon, C	<= 0.0050 %	<= 0.0050 %	
Chromium, Cr	<= 0.0050 %	<= 0.0050 %	

Component Elements Properties	≤ 0.0020 % Metric	≤ 0.0020 % English	Comments
Iron, Fe	≤ 0.0050 %	≤ 0.0050 %	
Lead, Pb	≤ 0.0020 %	≤ 0.0020 %	
Magnesium, Mg	≤ 0.0010 %	≤ 0.0010 %	
Manganese, Mn	≤ 0.0010 %	≤ 0.0010 %	
Molybdenum, Mo	≥ 99.95 %	≥ 99.95 %	by difference
Nickel, Ni	≤ 0.0020 %	≤ 0.0020 %	
Silicon, Si	≤ 0.0030 %	≤ 0.0030 %	
Tin, Sn	≤ 0.0030 %	≤ 0.0030 %	
Titanium, Ti	≤ 0.0020 %	≤ 0.0020 %	

Descriptive Properties	Value	Comments
Olsen Cup Test	>0.225 in. cup depth	Sheet thickness 0.015 in.
	>0.26 in. cup depth	Sheet thickness 0.030 in.
	>0.28 in. cup depth	Sheet thickness 0.040 in.
	>0.305 in. cup depth	Sheet thickness 0.050 in.
	>0.33 in. cup depth	Sheet thickness 0.060 in.

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