

H.C. Starck F-21-5 Pure Molybdenum, Foil

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

Material Notes:

F-21-5 Description of Product: Rolled molybdenum foil from 0.001 inches through 0.0049 inches thick produced from pressed and sintered powder metallurgy sheet bar. Structure: All foil will be supplied in a stress-relieved condition. Information provided by H.C. Starck.

Order this product through the following link:

http://www.lookpolymers.com/polymer_HC-Starck-F-21-5-Pure-Molybdenum-Foil.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|---|------------|
| Tensile Strength | >= 793 MPa | >= 115000 psi | ASTM E-345 |
| | @Thickness <=0.0254 mm | @Thickness <=0.00100 in | |
| | >= 793 MPa | >= 115000 psi | ASTM E-345 |
| | @Thickness 0.0254 - 0.0508 mm | @Thickness 0.00100 - 0.00200 in | |
| Tensile Strength, Yield | >= 793 MPa | >= 115000 psi | ASTM E-345 |
| | @Thickness 0.0508 - 0.0762 mm | @Thickness 0.00200 - 0.00300 in | |
| | >= 793 MPa | >= 115000 psi | ASTM E-345 |
| | @Thickness 0.0762 - 0.124 mm | @Thickness 0.00300 - 0.00490 in | |
| Tensile Strength, Yield | >= 655 MPa | >= 95000 psi | ASTM E-345 |
| | @Strain 0.200 %, Thickness <=0.0254 mm | @Strain 0.200 %, Thickness <=0.00100 in | |
| | >= 655 MPa | >= 95000 psi | ASTM E-345 |
| | @Strain 0.200 %, Thickness 0.0254 - 0.0508 mm | @Strain 0.200 %, Thickness 0.00100 - 0.00200 in | |
| Tensile Strength, Yield | >= 655 MPa | >= 95000 psi | ASTM E-345 |
| | @Strain 0.200 %, Thickness 0.0508 - 0.0762 mm | @Strain 0.200 %, Thickness 0.00200 - 0.00300 in | |
| | >= 655 MPa | >= 95000 psi | ASTM E-345 |
| | @Strain 0.200 %, Thickness 0.0762 - 0.124 mm | @Strain 0.200 %, Thickness 0.00300 - 0.00490 in | |
| Elongation at Break | >= 1.0 % | >= 1.0 % | ASTM E-345 |
| | @Thickness 0.0254 - | @Thickness 0.00100 - | |

| Mechanical Properties | 0.0508 mm Metric | 0.00200 in English | Comments |
|-----------------------|----------------------------------|------------------------------------|------------|
| | >= 2.0 % | >= 2.0 % | ASTM E-345 |
| | @Thickness 0.0508 - 0.0762 mm | @Thickness 0.00200 - 0.00300 in | |
| | >= 3.0 % | >= 3.0 % | ASTM E-345 |
| | @Thickness 0.0762 - 0.124 mm | @Thickness 0.00300 - 0.00490 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 % | |
| Copper, Cu | <= 0.0020 % | <= 0.0020 % | |
| 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 % | |

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