

MOLYBDENUM POWDER METALLURGY PRODUCTS

Number PD-7029 Issue 1-04.03.2010

Pure Molybdenum Plate PP-22-2

Description of Product This specification covers rolled molybdenum plate produced from pressed and

sintered powder metallurgy sheet bar.

Chemical Characteristics¹⁾

(Mass fraction in % [cg/g]; ppm [µg/g])

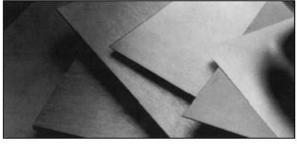
The chemical composition of the molybdenum powder used in producing sheet bar shall conform to the following limits:

Molybdenum (By Difference)	min.	99.95	%
Mgmax.		0.001	%
Mnmax.		0.001	%
Ni	max.	0.002	%
Al	max.	0.002	%
Cu	max.	0.002	%
Pb	max.	0.002	%
Ti	max.	0.002	%
Ca	max.	0.003	%
Si	max.	0.003	%
Sn	max.	0.003	%
С	max.	0.005	%
Cr	max.	0.005	%
Fe	max.	0.005	%

Structure Plate will be supplied in the stress-relieved condition unless otherwise requested.

Mechanical Properties

Tensile properties can be supplied on request when a Purchase Order is placed.



PP-22-2

¹⁾ Information on testing methods is available upon request.



High Performance Metal Solutions

Number PD-7029

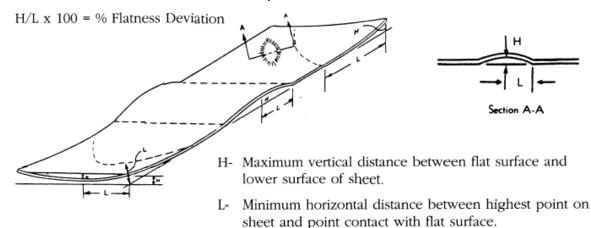
Issue 1-04.03.2010

Dimensional Tolerances

Thickness (Inches)	Thickness Tolerance (% of Thickness)	Width Tolerance (Inches)	Length Tolerance (Inches)	Flatness Deviation (% Maximum)
.1875 to .500	± 4	+.125 - 0	+.125 - 0	3
Over .500 to 1.000	± 5	+.125 - 0	+.125 - 0	5
Over 1.000 to 1.500	± 5	+.1875 - 0	+.1875 - 0	6

Plate will be sheared, abrasive cut, band saw cut, or water jet cut to the tolerances shown.

The deviation from flatness is determined by the formula:



Surface Condition

The plate will be supplied with a matte finish. It will be of uniform quality, clean and free from foreign matter. Major surface defects will be removed by grinding provided that such conditioning does not reduce dimensions below specified limits.

Identification

The material will be identified with appropriate specification number, ingot or lot number, and nominal size. Shipping containers will be marked with the name of the customer and the purchase order number.

Hazards identification in Advertising (Directive 67/548/EEC Article 26, Directive 1999/45/EC Article 13 and REGULATION (EC) No 1272/2008 Article 48)

none.

Rejection

H.C. Starck must receive written notification of rejected material with the reason for rejection. H. C. Starck reserves the right to inspect rejected material at the customer's plant for claim validation. The material may be returned only after proper authorization.

H.C. Starck Inc. 45 Industrial Place Newton, MA 02461-1951 / USA Phone +1 (617) 630-5800, Fax +1 (617) 630-5879



High Performance Metal Solutions

info@hcstarcksolutions.com

www.hcstarcksolutions.com

The conditions of your use and application of H.C. Starck products, technical assistance, and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, is your responsibility. Therefore, you are encouraged to test our products and review any technical assistance and/or information you may receive from H.C. Starck with your own resources, and determine to your own satisfaction whether H.C. Starck products are suitable for your intended uses and applications. This application-specific analysis should include at minimum testing to determine suitability for the intended use from a technical as well as health, safety, and environmental standpoint. Any technical assistance and/or information provided by H.C. Starck is given without any express or implied warranty or guarantee. You agree and understand and hereby expressly release H.C. Starck from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and/or information, except as may be contained otherwise in a written agreement between you and H.C. Starck. Any statement or recommendation not contained herein or in a written agreement between you and H.C. Starck. Nothing herein shall be construed as a recommendation to use any H.C. Starck products in a manner violative of the intellectual property rights of any third party. No license is implied or granted under or to H.C. Starck intellectual property. All product deliveries are based on the then current product specification and H.C. Starck's Conditions of Sale. IN NO EVENT WILL H.C. STARCK BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.