

## H.C. Starck Molybdenum Alloy TZM AFBT, Arc-Cast Forging Billet

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

**Material Notes:**

Description of Product: This specification covers carbon-deoxidized TZM alloy (molybdenum + 0.5% titanium + 0.08% zirconium) wrought forging billets produced from ingots consolidated by the H.C. Starck consumable electrode vacuum-arc-casting process. Structure: The billets will be supplied in the recrystallized condition, with a maximum hardness of 215 B.H.N. (10 mm ball/1500 kg/30 sec.). Material can also be supplied in the stress-relieved condition. Information provided by H.C. Starck.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_HC-Starck-Molybdenum-Alloy-TZM-AFBT-Arc-Cast-Forging-Billet.php](http://www.lookpolymers.com/polymer_HC-Starck-Molybdenum-Alloy-TZM-AFBT-Arc-Cast-Forging-Billet.php)

| Mechanical Properties | Metric                          | English                             | Comments   |
|-----------------------|---------------------------------|-------------------------------------|------------|
| Hardness, Brinell     | <= 215                          | <= 215                              | 10 mm ball |
|                       | @Load 1500 kg,<br>Time 30.0 sec | @Load 3310 lb,<br>Time 0.00833 hour |            |

| Component Elements Properties | Metric          | English         | Comments      |
|-------------------------------|-----------------|-----------------|---------------|
| Carbon, C                     | 0.010 - 0.030 % | 0.010 - 0.030 % |               |
| Iron, Fe                      | <= 0.0080 %     | <= 0.0080 %     |               |
| Molybdenum, Mo                | >= 99.25 %      | >= 99.25 %      | by difference |
| Nickel, Ni                    | <= 0.0020 %     | <= 0.0020 %     |               |
| Nitrogen, N                   | <= 0.0020 %     | <= 0.0020 %     |               |
| Oxygen, O                     | <= 0.0025 %     | <= 0.0025 %     |               |
| Silicon, Si                   | <= 0.0080 %     | <= 0.0080 %     |               |
| Titanium, Ti                  | 0.40 - 0.55 %   | 0.40 - 0.55 %   |               |
| Zirconium, Zr                 | 0.060 - 0.12 %  | 0.060 - 0.12 %  |               |

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