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Bars and plate blanks of molybdenum

钼条和钼板坯

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Bars and plate blanks of molybdenum

1 Scope

This standard specifies the requirements, test methods, inspection rules and markings, packaging, transportation, storage, quality certificates and order forms (contract) for bars and plate blanks of molybdenum.

This standard applies to bars and plate blanks of molybdenum produced by powder metallurgy and smelting methods.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB/T 3850 Impermeable sintered metal materials and hard metals - Determination of density

GB/T 4325 (all parts) Molybdenum chemical analysis method

GB/T 6394 Metal - Methods for estimating the average grain size

3 Requirements

3.1 Product classification

The product designations are divided into two designations: Mo-1 and Mo-2 according to different chemical compositions.

3.2 Chemical composition

The chemical composition of the product shall meet the requirements of Table 1.

3.5.4 The curvature of Mo-1 vertical frit bar is not more than 4 mm.

3.5.5 When the buyer has requirements for dimensional tolerances, it shall be determined through negotiation between the supplier and the buyer.

3.6 Appearance quality

3.6.1 The surface of Mo-1 product is gray or dark gray metallic luster; there shall be no water absorption. Oxidation color is allowed on the surface of the straightening bar.

3.6.2 The sintered bar and plate blank are allowed to have traces formed by the contact between the product and the product, and the product and the sintering furnace body.

3.6.3 Mo-1 products shall not have over-melting, bubbling, delamination, cracks, coarse surface crystals; there shall be no missing edges, missing corners, or pits that may affect the use.

3.6.4 The chuck part of the Mo-1 vertical frit bar shall be cut off.

4 Test method

4.1 The chemical analysis method of the product is carried out in accordance with the provisions of GB/T 4325 (all parts).

4.2 The density measurement of the product shall be carried out in accordance with the provisions of GB/T 3850.

4.3 The grain size determination of the product's cross-section shall be carried out in accordance with the provisions of GB/T 6394.

4.4 The product size and shape shall be measured by the tools of corresponding precision.

4.5 The appearance quality of the product shall be inspected visually.

5 Inspection rules

5.1 Inspection and acceptance

5.1.1 The product shall be inspected by the supplier, to ensure that the product meets the requirements of this standard; meanwhile the product quality certificate shall be filled in.

5.1.2 The purchaser shall inspect the received product in accordance with the

6 Marking, packaging, transportation, storage and quality certificate

6.1 Marking

The outer packaging of the product shall indicate: the supplier's name, product name and designation, specifications, batch number, net weight.

6.2 Packaging

The product is packed in wooden or carton outside; packed in grooved foam board or moisture-proof paper inside. If there are special requirements, they shall be negotiated and determined by both parties.

6.3 Transportation

When the product is transported, it shall be protected from moisture and severe collision.

6.4 Storage

The product shall be stored in a ventilated, dry and acid-free atmosphere to prevent oxidation.

6.5 Quality certificate

Each batch of products shall be accompanied by a product quality certificate, which shall indicate:

- a) The name and address of the supplier;
- b) Product name, designation, specification;
- c) Batch number;
- d) Net weight;
- e) Number of this standard;
- f) Analytical testing results and the mark of the quality supervision department;
- g) Date of inspection.

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