

Translated English of Chinese Standard: GB/T20892-2020
www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 77.120.99

H 65

GB/T 20892-2020

Replacing GB/T 20892-2007

Praseodymium-neodymium metal

镨钕金属

Issued on: November 19, 2020

Implemented on: October 01, 2021

Issued by: State Administration for Market Regulation;

Standardization Administration of the People's Republic of China.

Table of Contents

Foreword.....	3
1 Scope	5
2 Normative references.....	5
3 Technical requirements	5
4 Test methods.....	6
5 Inspection rules.....	7
6 Marks, packaging, transportation, storage and quality certificates	8

Praseodymium-neodymium metal

1 Scope

This Standard specifies the technical requirements, test methods, inspection rules, marks, packaging, transportation, storage and quality certificates of praseodymium-neodymium metal.

This Standard applies to the praseodymium-neodymium metal, that uses praseodymium neodymium oxide as the raw material, is produced by the molten salt electrolysis method and is used as magnetic materials.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 8170, *Rules of rounding off for numerical values & expression and judgement of limiting values*

GB/T 12690 (all parts), *Chemical analysis methods for non-rare earth impurities of rare earth metals and their oxides*

GB/T 14635, *Rare earth metals and their compounds - Determination of total rare earth content*

GB/T 17803, *Designation system for rare earth products*

GB/T 26417, *Chemical analysis methods of praseodymium-neodymium alloy and the compounds - Determination of REO relative contents*

3 Technical requirements

3.1 Product classification

The products are divided into six designations according to chemical composition: PrNd-80NdA, PrNd-80NdB, PrNd-75NdA, PrNd-75NdB, PrNd-70NdA, PrNd-70NdB. The method of product designation representation shall comply with the provisions of GB/T 17803.

3.2 Chemical composition

4.1.1 The analysis method of the total amount of rare earth (RE) is carried out according to the provisions of GB/T 14635. When the total amount of rare earths is more than 99%, the actual value of the total amount of rare earths is calculated by subtraction, namely $(100\% - \Sigma \text{ non-rare earth impurities})$.

4.1.2 The analytical methods of praseodymium, neodymium and rare earth impurities are carried out according to the provisions of GB/T 26417.

4.1.3 The analytical methods for non-rare earth impurities are carried out in accordance with the provisions of GB/T 12690 (all parts).

4.2 Numerical rounding

The rounding of numerical values is carried out in accordance with the provisions of GB/T 8170.

4.3 Appearance quality

Conduct visual inspection under natural scattered light.

5 Inspection rules

5.1 Inspection and acceptance

5.1.1 The product is inspected by the supplier's quality inspection department to ensure that the product quality meets the requirements of this Standard, and a quality certificate is filled out.

5.1.2 The purchaser shall inspect the received products in accordance with the provisions of this Standard. If the inspection results are inconsistent with the provisions of this Standard, it shall be submitted to the supplier within 2 months from the date of receipt of the product. The supplier and the purchaser shall negotiate and resolve. If arbitration is required, an organization recognized by both parties can be entrusted to carry out the arbitration. Sampling shall be performed jointly at the purchaser's.

5.2 Batch

Products shall be submitted for inspection in batches. Each batch shall consist of products of the same designation.

5.3 Inspection items

Each batch of products shall be inspected for chemical composition and appearance quality.

5.4 Sampling and sample preparation

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 3 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

3. <https://www.google.com/search?tbm=bks&q=ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Google Books -- Select your currency.
- Processed by Google (delivery, tax invoice etc.). Delivered in 9 seconds by Google.
- Tips: Download an unprotected **True-PDF** (text-editable) from Google-Books:
 1. <https://play.google.com/books> → 2. Sign in → Google account
 3. Find the **BOOK** you bought → 4. Click "3-dots" → Export
 5. Save as "*.pdf" (Save True-PDF to your local computer for offline reading/printing)

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

Accountable person and shareholder: Wayne Zheng

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----