

ICS 77.120.99

CCS H65



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 15071-2008

Replacing GB/T 15071-1994

Dysprosium metal

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Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This standard is GB/T 15071-1994 "metal dysprosium" amendments. This standard and GB/T 15071-1994 main changes compared to as follows:

--- According to GB/T 17803-1999 "rare earth products grades representation" grade digital representation;

--- Cancel the original standard Dy-

8 Grades (Dy/RE, 95%);

--- Increased 104040 Grade (Dy/RE, 99.99%) and 104 025 Grades (Dy/RE, 99.5%);

--- The assessment indicators of certain non-rare earth impurities have been adjusted. This standard was proposed by the National Development and Reform Commission, Office of Rare Earth. This standard by the National Standardization Technical Committee rare. This standard by the Beijing Nonferrous Metal Research Institute, Baotou Rare Earth Research Institute jointly responsible for drafting. This standard by Ganzhou Qiangdong Industrial (Group) Co., Ltd., the South of rare earth high-tech Co., Ltd. (Ganzhou Nonferrous Metallurgy Research Institute), Lake Southern Rare Earth Metal Material Research Institute participated in the drafting. The main drafters of this standard. Yangguang Lu, Rui Hong, Li Zongan, Xie Ping, Nam Hung Yao, Du Wen, Weng Guoqing. This standard replaces the standards previously issued as follows:

--- GB/T 15071-1994. Dysprosium

1 Scope

GB/T 15071-2008 is the Chinese national standard on dysprosium metal, in the field of metallurgy. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 March 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force

since 1 September 2008. Classification: ICS 77.120.99, CCS H65. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the dysprosium metal requirements, test methods, inspection rules and signs, packaging, transportation and storage. This standard applies to the direct thermal reduction of calcium and calcium master alloy heat and a vacuum distillation method for the production of dysprosium metal, mainly used for NdFeB Alloys and magnetostrictive alloys.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8170 numerical rounding rules

GB/T 12690 (all parts), oxides of rare earth metals and their chemical impurity analysis of Central Africa

GB/T 14635 (all parts), chemical analysis of rare earth metals and their compounds

GB/T 18115.9 rare earth metals and oxides of rare earth impurities in chemical analysis methods and dysprosium lanthanum, cerium, praseodymium, neodymium, samarium, europium, gadolinium, Terbium, holmium, erbium, thulium, ytterbium, lutetium and yttrium content

3 Requirements

3.1 Chemical composition Grades and chemical composition shall comply with the requirements in Table 1. Demand side, such products have special requirements, supply and demand sides can be negotiated.

3.2 Appearance

3.2.1 The bulk product is silver-gray metal.

3.2.2 metal surfaces should be clean, no visible inclusions. Table 1 product Trademark
Chemical composition (mass fraction) /% REDy/RE impurities, not more than not less than
Rare earth impurities/RE non-rare earth impurities Gd Tb Ho Er Y Other rare Soil
contaminants Fe Si Ca Mg Al Ni O C Ta (or Nb, Ti, Mo, W) 10,404,099

99.990.0010.0030.0020.0010.0020.0010.010.010.010.010.010.010.040.01 0.01
10,403,599

99.95 combined amount 0.02 0.05 0.020.010.020.010.020.020.050.02 10,403,099
combined amount of 99.9 0.30 0.1 0.050.020.050.030.030.030.250.03 10,402,599 99.5 0.5
0.1 0.03

0.1 combined 0.050.040.050.250.03 0.30 10,402,098

99.0 combined amount 1.0 0.2 0.05 0.1 0.050.050.08 0.3 0.05 0.35