

ICS 77.120.99

CCS H65



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

GB/T 15678-2010

Replacing GB/T 15678-1995

Erbium oxide

氧化铒

Issued on: January 14, 2011

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

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Foreword

This standard replaces GB/T 15678-1995 "erbium oxide." This standard compared with GB/T 15678-1995, the main changes are as follows:

--- According to GB/T 17803 "rare earth products grades representation" requirement, digital grades representation;

--- Deleted Er₂O₃

3 Grade/REO content of not less than 95%;

--- For Er₂O₃/REO content of not less than 99.99% of rare earth impurities in the number of examination grades have been adjusted;

--- The assessment of non-rare earth impurities has been adjusted. This standard by the National Standardization Technical Committee of rare earth (SAC/TC229) centralized. This standard by Guangdong Zhujiang Rare Earth Co., Ltd. is responsible for drafting. This standard by the Jiangyin Jiahua Advanced Material Resources Co., Ltd Ganzhou Qiangdong Rare Earth Group Co., Ltd. Yixing new Leeshing Participated in the drafting. The main drafters of this standard. Jin Yanhua, Denghan Qin, Xie Jianwei, Nam Hung Yao, Yu Zhichun. This standard replaces the standards previously issued as follows:

--- GB/T 15678-1995. Erbium oxide

1 Scope

GB/T 15678-2010 is the Chinese national standard on erbium oxide, 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 14 January 2011 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 November 2011. 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 Erbium requirements, test methods, inspection rules and signs, packaging, transportation and storage. This standard applies to chemical method was primarily made for erbium oxide magnetic materials, glass, metal and electronic industries use.

1.0 Non-REEs Impurity Fe₂O₃ 0.0005 0.001 0.001 0.002

0.005 SiO₂ 0.003 0.005 0.005 0.01

0.02 CaO 0.001 0.005 0.01 0.02

0.02 CuO 0.001 0.001 - - -

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 8170 repair value expressed about the rules and limit values \u200b\u200band judgment

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

GB/T 14635 method for chemical analysis of rare earth metals and rare earth compound total

GB/T 18115.11 rare earth metals and oxides of rare earth impurities in chemical analysis methods erbium lanthanum, cerium, praseodymium, neodymium, samarium, europium, gadolinium, Determination of terbium, dysprosium, holmium, thulium, ytterbium, lutetium and yttrium content

3 Requirements

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

1 Product No. 121040 121 035 121 030 121 025 121 020 chemical composition (Mass fraction) /% REO, not less than 9,999,999,999 Er₂O₃/REO, not less than 99.99 99.95 99.9 99.5

99 Impurities no greater than Rare earth impurities / REO Dy₂O₃ 0.0005 Ho₂O₃ 0.0015
Tm₂O₃

0.002 Yb₂O₃

0.002 Lu₂O₃

0.001 Y₂O₃

0.002 Other combined amount of

0.001 Combined amount

0.05 Combined amount

0.10 Combined amount

0.5 Combined amount