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

GB/T 23807-2009

**Fine ceramics(advanced ceramics advanced technical
ceramics)-Classification systemecification**

精细陶瓷分类系统

(English Translation)

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Foreword

This revised standard adopts ISO 15165:2001 "Fine Ceramics classification system" (in English).

This standard is based on ISO 15165:2001 redrafted. This standard and ISO 15165:2001 main technical differences are as follows.

--- Remove ISO 15165:2001 Appendix A to retrieve the "Application Category" in alphabetical order;

--- 722 increase in Appendix A "laser transmitter." the Standard Appendix A, Appendix B and Appendix D is normative appendix, Appendices C and E are informative appendices.

The standard proposed by China Building Materials Federation.

This standard by the National Ceramic Industry Standardization Technical Committee (SAC/TC194) centralized.

This standard was drafted. Beijing Sinoma Synthetic Crystals Limited.

Introduction

This standard provides the framework for the systematic classification of fine ceramic products and materials, which includes business statistics, market research, material identification, coding and databases. "Fine Ceramics" As representatives of the different chemical properties of the product, shape, characteristic properties, covering a wide range of categories and complex, and there will be cross-link various factors. To solve the complicated problem of fine ceramics category, this standard to establish a set of chemical composition, ceramic -Energy, materials and processing methods, materials, components and integrated applications, product classification system, which can be targeted by a certain order of the fine Fine ceramic classification. Standard Appendix A, Appendix B, Appendix C and Appendix D, respectively, provide a different classification system factors corresponding Numbering method, use can find in accordance with the relevant requirements of classification subjects, then arranged as required.

Fine Ceramics classification system

1 Scope

This standard specifies the classification of fine ceramics. The system includes a ceramic powder precursor powder, ceramic fibers, whiskers, platelets, crystal, Polycrystalline, amorphous (glass) material, and composite materials, ceramic films, coatings. The classification system will form the core standards.

Classification system does not contain the following.

- a) carbon material, in addition to some special ceramics such as diamond, glassy carbon or graphite outside chemical vapor deposition;
- b) silicon, germanium, and other semi-metallic materials, except when they are fine ceramic composition or as a precursor;
- c) traditional ceramic clay, comprising.
 - 1) Daily crockery (tableware and other daily fine ceramics);
 - 2) building and sanitary ceramics;
 - 3) wall materials;
 - d) shaped and unshaped refractories.

This standard applies to the classification of fine ceramics. This standard does not apply to products or carbide mainly composed of glass products, but Referring to adopt. This standard is not intended to regulate the mandatory classification system how to use, but to provide a flexible framework and a recommendation of Operatively coding system can use to compile information encoded according to ceramic products.

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 17991 Fine Ceramics term (GB/T 17991-2009, ISO 20507:2003, MOD)

3 Terms and Definitions

GB/T 17991 and established the following terms and definitions apply to this standard.

Advanced Ceramics advancedceramic Advanced technical ceramics
advancedtechnicalceramic Good processing performance, high performance, excellent
non-metallic, with special features of inorganic ceramic material.

Subjects with a set of independence or classification associated features.

In the ledger in a category.

String defined on the basis of material properties.