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

GB/T 17991-2009

Replacing GB/T 17991-1999

**Fine ceramics (advanced ceramics, advanced technical
ceramics) -- Vocabulary**

精细陶瓷术语

(English Translation)

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Foreword

This revised standard adopts ISO 20507:2003 "Fine ceramics (advanced ceramics, advanced technical ceramics) --- The term" (in English).

This standard modifications adopted ISO 20507:2003, the made technical changes, modifications, see Appendix A.

This standard also made the following editorial changes.

--- Deleted international standards foreword;

--- Original standard terms sort adjusted.

This standard replaces GB/T 17991-1999 "industrial ceramics and related terms." this standard compared with GB/T 17991-1999, increasing the ISO 20507:2003 entries, delete the original standard part of the entry.

Appendix A of this standard is an informative annex.

The standard proposed by China Building Materials Federation.

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

1 Scope

This standard describes the fine ceramics (advanced ceramics, advanced technical ceramics) standard terms and definitions used in the field representative of.

This standard also lists some of the acronyms in science and technology has been widely accepted in the literature as well as their corresponding standard terms and definitions.

In many technical areas, including fine ceramics, including some commonly used terms were not included in this standard.

2.1 Basic terms

2.1.1

Natural mineral or chemical products as raw material, raw material processing, forming, drying, sintering and other processes made of inorganic nonmetallic materials.

NOTE: This concept includes both the ceramic clay as raw material product, but also contains a mixture of oxides, nitrides, carbides, silicides, borides and the like of the original Material produce.

2.1.2

Mineral and/or other silicate as the main raw material made of silicate ceramic material with a main component.

NOTE: porcelain and steatite are typical silicate ceramics.

2.1.3

Refined high purity, ultra-fine, synthetic inorganic compounds as raw materials, preparation of precise control of the firing, with specific performance Ceramics.

2.1.4

And fine ceramics, advanced technical ceramics belong to synonyms, as defined in 2.1.3.

2.1.5

And fine ceramics, advanced ceramics belong to synonyms, as defined in 2.1.3.

2.1.6

And fine ceramics, advanced ceramics, advanced technical ceramics belong to synonyms, as defined in 2.1.3.

2.1.7

And fine ceramics, advanced ceramics, advanced technical ceramics belong to synonyms, as defined in 2.1.3.

2.1.8

It has excellent mechanical properties, thermal stability and chemical stability, suitable for the production of structural components at different temperatures using fine ceramics.

Note: The term structural ceramics can also refer to clay products for structural components.