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

GB/T 15000.2-2019

**Directives for the work of reference materials -- Part 2: Selected
terms and definitions**

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Foreword

GB/T 15000 `` Guidelines for the Work of Standard Samples " is divided into the following 8 parts.

- Part 1. State the general provisions of standard samples in technical standards;
- Part 2. Common terms and definitions;
- Part 3. General principles and statistical methods of standard sample valuation;
- Part 4. the contents of the standard sample certificate and label;
- Part 6. General rules for standard sample packaging;
- Part 7. General requirements for the competence of standard sample producers;
- Part 8. Use of certified standard samples;
- Part 9. Calibration and use of certified reference samples in analytical chemistry.

This part is the second part of GB/T 15000.

This section is drafted in accordance with the rules given in GB/T 1.1-2009.

This section replaces GB/T 15000.2-1994 "Guidelines for the work of standard samples (2) Common terms and definitions of standard samples". versus

Compared with GB/T 15000.2-1994, the main technical changes are as follows.

- Modified the scope (see Chapter 2, Chapter 1 of the.1994 edition);
- Modified the definition of "standard samples" (see 2.1.1, 3.2 of the.1994 version);
- Modified the definition of "certified standard sample" (see 2.1.2, 3.3 of the.1994 version);
- Added the term "candidate standard sample" (see 2.1.3);
- Added the term "matrix standard sample" (see 2.1.4);

- Added the term "original measurement standard" (see 2.1.5);
- Added the term "secondary measurement standard" (see 2.1.6);
- Modified the definition of "sample" and added sample terms (see 2.1.7, 3.1 of the.1994 version);
- Increased the term "minimum sample size" (see 2.1.8);
- Added the term "production batch" (see 2.1.9);
- Revised the term and definition "measurement" (see 2.1.10, 3.4 of the.1994 edition);
- Added the term "assignment" (see 2.1.11);
- Modified the definition of "uniformity" (see 2.1.12, 3.5 of the.1994 version);
- Increased the term "uniformity between units" (see 2.1.13);
- Increased the term "uniformity within the unit" (see 2.1.14);
- Increased the term "transport stability" (see 2.1.16);
- Increased the term "long-term stability" (see 2.1.17);
- Increased the term "life" (see 2.1.18);
- Modified the definition of "validity period" (see 2.1.19, 3.7 of the.1994 version);
- Added the term "interchangeability" (see 2.1.20);
- Added the term "calibration sample" (see 2.1.21);
- Added the term "quality control samples" (see 2.1.22);
- Added the term "characteristic value" (see 2.2.1);
- Added the term "characteristic properties" (see 2.2.2);
- Modified the definition of "standard value" (see 2.2.3, 4.1 of the.1994 version);
- Added the term "information value" (see 2.2.4);
- Added the term "interlaboratory comparison" (2.2.5);
- Modified the definition of "standard method" (see 2.2.6, Chapter 5 of the.1994 edition);
- Modified the definition of "fixed value" (see 2.3.1,.1994 version 6.1);
- Modified the definition of "standard sample certificate" (see 2.3.2, 6.2 of the.1994 edition);
- Modified the definition of "fixed value report" (see 2.3.3,.1994 version 6.3);
- Added the term "product description" (see 2.3.4);

- Added the term "standard sample producer" (see 2.3.5);
- Added the term "subcontractor" (see 2.3.6);
- Added the term "production" (see 2.3.7);
- Added the term "simple random sampling" (see 2.4.1);
- Added the term "stratified sampling" (see 2.4.2);
- Added the term "stratified simple random sampling" (see 2.4.3);
- Added the term "target value term" (see 2.4.4);
- Added the term "target measurement uncertainty" (see 2.4.5);
- Deleted the term "reference value" (see 4.2 of the.1994 edition);
- Deleted the term "uncertainty" (see 4.3 of the.1994 edition);
- Deleted the term "accuracy" (see 4.4 of the.1994 edition);
- Deleted the term "interlaboratory test" (see 4.5 of the.1994 edition);
- Removed the term "(quantity) value" (see.1994 version 7.2;
- Deleted the term "(quantity) truth value" (see 7.3 of the.1994 edition);
- Deleted the term "systematic error" (see 7.4 of the.1994 edition);
- Deleted the term "random error" (see 7.5 of the.1994 edition);
- Deleted the term "confidence level" (see.1994 version 7.6);
- Deleted the term "precision" (see.1994 version 7.7);
- Deleted the term "(determined) repeatability" (see.1994 version 7.8);
- Deleted the term ((measured) reproducibility "(see.1994 version 7.8).

The translation method used in this section is equivalent to ISO Guide 30..2015 Standard Terms and Definitions of Standard Samples.

The following editorial changes have been made in this section.

- In keeping with the existing series of standards, the standard name was changed to "Standard Sample Working Guide Part 2. Common Terms and definition";
- Increased the index.

This part is proposed and managed by the National Standard Sample Technical Committee (SAC/TC118).

This section was drafted by. China Standardization Association, National Environmental Analysis and Testing Center, Metallurgical Industry Information Standards Research Institute, China Standardization

Research Institute, China National Accreditation Service for Conformity Assessment, China Academy of Nonferrous Metals Technology and Economy, Central Iron and Steel Research Institute, National Nanoscience and Technology Institute

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Introduction

Standard samples and certified standard samples (defined in 2.1.1 and 2.1.2) are widely used in calibration of measuring instruments, evaluation of measurement procedures,

Volume and laboratory internal or external quality control. In some specific cases of biological or materials science, they can be expressed in proprietary units

Functional characteristics. The role of standards and certified standards in national and international standardization activities and laboratory accreditation is increasingly important.

This section is a guide to the terms and definitions that have been mentioned in the GB/T 15000 series for the production and use of standard samples. It helps confirm

Ensure high consistency of terminology used by different organizations around the world in the production and use of standard samples.

In some cases, accepted alternative terms are listed below bolded terms.

Guidelines for Standard Sample Work

Part 2. Common terms and definitions

1 Scope

This section of GB/T 15000 defines the terms and definitions related to standard samples, especially for standard sample product specifications and certificates

And the terms in the corresponding development report.

2.1 Material-related terms

2.1.1

Reference material

Materials that have one or more of the specified characteristics sufficiently uniform and stable have been determined to meet the intended use of the measurement process.