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

GB/T 15445.1-2008

Replacing GB/T 15445-1995

**Representation of results of particle size analysis -- Part 1:
Graphical representation**

粒度分析结果的表述 第1部分：图形表征

(English Translation)

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Foreword

GB/T 15445 "Size Analysis of the expression" six parts, names are as follows.

- Part 1. graphical representation;
- Part 2. particle size distribution calculated by the average particle size/diameter and each order moments;
- Part 3. Determination of the cumulative particle size distribution curve fit to the standard mode;
- Part 4. Characterization of a classification process;
- Part 5. Use the lognormal probability distribution of particle size analysis of the applicability of the relevant calculation;
- Part 6. particle shape and morphology description and quantitative characterization.

This section GB/T 15445 Part 1.

1998 "Particle size analysis results presentation - Part 1.. graphical representation of the" equivalent to ISO 9276-1 using part. This portion ISO 9276-1:1998 as compared to the main changes are as follows.

- Change the cover of international standards to meet national standards cover provisions;
- Normative reference document, with China's national standard instead of the corresponding international standards;
- "Standard of this section" or the "standard" instead of "this International Standard";
- Rearrange text page;
- Remove the relevant ISO international standards of the preamble;

- Increase the standards described in the preparation of the preamble;
 - Revise international standards introduction;
 - ISO standards --- references are replaced by the corresponding national standards in force;
 - According to the latest ISO technical errata of the standards were appropriate treatment.
- This Part replaces GB/T 15445-1995 "particle size analysis of graphical representation." the main changes compared to the "particle size analysis of graphical representation" in this section and GB/T 15445-1995 as follows.
- Delete various portions of the particle size defined in detail;
 - Removed using graph paper drawing portion;
 - Re-edit text.

Appendix A of this section is an informative annex.

This part of the National Standardization Technical Committee detection method sieved and granules points and focal points.

Drafting this Part. Steel Research Institute, the machine Productivity Promotion Center.

Introduction

It used to describe the universal physical characteristics such as particle size analysis data and terminology, and the cumulative value of a frequency distribution in different Countries is very different. The reason is because the international standards detailed in favor of consensus and help to transform particle size analysis data.

GB/T 15445.1-2008/ISO 9276-1:1998 Particle size analysis results presentation Part 1. graphical representation

1 Scope

GB/T 15445 in this section is based on the histogram distribution, frequency and cumulative distribution graphs to represent special specification size analysis. Meanwhile Regulation Set the standard terminology that is determined from the measured data should follow the above distribution.

This section applies to any particle size range of solid particles, liquid droplets or bubbles distributed graphical representation.

Appendix A gives a graphical representation of the results of the analysis of the sample size.

2 Normative references

The following documents contain provisions which, through reference GB/T 15445 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

Basic dimensions GB/T 6005 Test sieves - Metal wire cloth, perforated plate and electroformed sheet mesh (GB/T 6005-2008, ISO 565:1990, MOD)

3.2 Notation

Divide the total number of state-level granularity $Q_0(x)$ in volume-based frequency distribution $Q_1(x)$ with a reference frequency distribution of the length $2q(x)$ to the surface area or projected area of the reference frequency distribution $3q(x)$ to the volume or mass-based frequency distribution $Q_0(x)$ of cumulative distribution in volume reference $Q_1(x)$ to the length of the reference cumulative distribution $Q_2(x)$ to the surface area or projected area of the reference cumulative distribution GB/T 15445.1-2008/ISO 9276-1:1998