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

GB/T 17363.2-2009

Replacing GB/T 17364-1998

**Nondestructive mensuration of gold content in the gold
products -- Part 2: Method of compositive determine
(English Translation)**

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Foreword

"Gold products destructive determination of gold content" is divided into two parts.

- Part 1. electron probe micro-analysis;
- Part 2. Comprehensive measurement method.

This is Part 2.

This Part replaces GB/T 17364-1998 "nondestructive quantitative analysis method of gold content in gold products." this portion of the GB/T 17364-1998 main changes are as follows.

- "Non-destructive quantitative analysis method" to "Comprehensive measurement method";
- "Reference standard" to read. "normative references";
- Added "term and symbol" part;
- "Normative" to "informative annex";
- Use the "accuracy" to use the "uncertainty";
- Added "measurements" section;
- Added "original recording format" section;
- Added "Measurement Report Format" section;

This section of the Appendix A, Appendix B, Appendix C, Appendix D are informative appendices.

This part of the National Standardization Technical Committee microbeam analysis and focal points.

This section is drafted. Shanghai Polytechnic University, Tongji University, Shanghai ingot Energy Technology Co., Ltd., Beijing Petroleum Exploration and Development Institute Study hospital, Shanghai Institute of Measurement and Testing, Shanghai Institute of Ceramics, Chinese Academy of Sciences.

1 Scope

This section provides the density determination and electron probe microanalysis (or X-ray fluorescence analysis, secondary ion mass spectrometry) combined determination yellow the method of gold gold content of the article.

This section applies to non-destructive determination of gold content of not less than 75% of the alloy type calcined molding of gold products.

This section does not apply bubble-cast molding or hollow or gold plated products.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this section, however, encourage the parties to this part of the research agreement Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 15074 method of quantitative electron probe microanalysis General Electron probe quantitative analysis method GB/T 15616 of metals and alloys JJG901 electron microprobe analyzer national verification procedures JJF1001-1998 common measurement terms and definitions

3.1 Terms and Definitions

JJF1001-1998 and the following terms and definitions apply to this section.

3.1.1

Gold Products

Gold as the main raw material items.

3.1.2

Gold content

Gold in gold products mass fraction. "Gold content" and "gold" the same. Because sociology often borrowed the word "gold." for Avoid misunderstandings, this standard using the "gold content." 3.1.3 Destructive determination Basic does not damage the product being measured.

3.1.4

Equivalent quality gold products Gold products immersed in pure water, with a balance that was quality.

3.1.5

Equivalent density impurities the main impurities formulated into a mass ratio of the density of the alloy.

3.2 Symbol

3.2.1

rho

0 density of pure water.