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

GB 1616-1988

Replacing GB 1616-2003

**Hydrogen peroxide for industrial use
(English Translation)**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB 1616-2003 "Industrial hydrogen peroxide", compared with GB 1616-2003, in addition to editorial changes outside the main technical change of the following.

- Standard becomes mandatory attribute consists recommended;
- Remove 30% Specification and the corresponding index (2003 version 3.2);
- Additional 60% of the product specification and the corresponding indicators (see 4.2);
- Adjust the non-volatile index requirements (see 4.2);
- Increased by inductively coupled plasma emission spectrometry determination of total carbon content (see 5.7.2);
- Increased nitrate content determination by ion chromatography (see 5.8.1).

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee of Chemical Inorganic Chemical Technical Committee (SAC/TC63/SC1) centralized.

1 Scope

This standard specifies the requirements for industrial hydrogen peroxide, test methods, inspection rules and signs, labels, packaging, transport and storage.

This standard applies to industrial hydrogen peroxide. The products are mainly used as the oxidant, bleach and cleaning agent, widely used in textiles, chemicals, building Paper, electronics, environmental protection, mining, pharmaceutical, aerospace and military industries.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 190-2009 dangerous goods packaging logo GB/T 191-2008 Packaging - Pictorial signs
GB/T 6678 General Principles for Sampling Chemical Products GB/T 6680 General rules
for sampling liquid chemical products Laboratory use specifications and test methods GB/T
6682-2008 Analysis GB/T 8170 repair value expressed about the rules and limit values
and judgment GB 12463-2009 transport of dangerous goods packaging
technology GB 15603 commonly used hazardous chemicals stored General HG/T 3696.1
inorganic chemical products, chemical analysis standard solution, Preparations Part 1.
Standard titration solution Preparation liquid HG/T 3696.2 inorganic chemical products,
chemical analysis standard solution, Preparations Part 2. impurity standard solution
Preparation liquid HG/T 3696.3 inorganic chemical products, chemical analysis standard
solution, Preparations Part 3. Formulation and products Preparation

3 Formula and relative molecular mass

Molecular formula. H_2O_2 .

Molecular Weight. 34.01 (according to 2011 international relative atomic mass).

4 Requirements

4.1

Appearance. colorless, transparent liquid.

4.2

Industrial hydrogen peroxide test methods specified in this standard by testing shall be in accordance with Table 1 technical requirements.