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

GB 28234-2020

Replacing GB 28234-2011

Hygienic requirements for acidic electrolyzed water generator

酸性电解水生成器卫生要求

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB 28234-2011 "Safety and Sanitation Standard for Acidic Oxidation Potential Water Generator", compared with GB 28234-2011 The main technical changes are as follows:

- Modified the scope of application (see Chapter 1, Chapter 1 of the.2011 edition);
- Added "acid electrolyzed water generator", "slightly acidic electrolyzed water generator", "acidic electrolyzed water", "slightly acidic electrolyzed water" and "no diaphragm" The definition of "type electrolyzer" (see 3.1, 3.3, 3.4, 3.6, 3.8);
- Modified the definition of "acid oxidizing potential water" (see 3.5, 5.1.3 of the.2011 edition);
- Deleted "Name and Model" (see Chapter 4 of the.2011 edition);
- Deleted the "basic structure diagram of the acidic oxidation potential water generator" (see 5.1.1 and Figure 1 of the.2011 edition);
- Deleted the requirement that "the normal service life of the generator should be ≥ 5 years" (see 5.1.4.1 of the.2011 edition);
- Modified the requirements of "Acid Oxidation Potential Water Generation" (see 4.2.1.6,

5.3.1.6 of the.2011 edition);

---Added "simulation test and field test should meet the requirements of WS628 and "Disinfection Technical Specification" (2002 Edition)" (see

4.2.2.3 And 4.3.2.3);

1 Scope

GB 28234-2020 is the Chinese national standard on hygienic requirements for acidic electrolyzed water generator, in the field of health care technology. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 23 July 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 August 2021. Classification: ICS 11.080, CCS C50. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the technical requirements, application scope, use methods, and methods of acid electrolyzed water generators (hereinafter referred to as generators) and acid electrolyzed water Transportation, storage and packaging, marking and inspection methods. This standard applies to continuous generation type acid oxidation potential water generators and slightly acidic electrolysis water generators and their generated acid oxidation potential Water and slightly acidic electrolyzed water.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 191 Packaging, storage and transportation pictorial signs

GB/T 1266 Chemical reagent sodium chloride

GB 1886.9 National Food Safety Standard Food Additive Hydrochloric Acid

GB 5749 Sanitary Standard for Drinking Water

GB/T 5750.5 Standard Test Method for Drinking Water Inorganic Non-metallic Index

HG/T 2471 Electrolytic cell metal anode coating

WS310.2 Hospital Disinfection Supply Center Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Generator of acid electrolyzed water Electrolyze the sodium chloride and/or hydrochloric acid aqueous solution in an electrolytic cell to generate an acidic aqueous solution with hypochlorous acid as the main sterilizing component ($\text{pH} < 6.5$) device.

Note. Including acidic oxidation potential water generator and slightly acidic electrolytic water generator.

3.2 Generator of acid electrolyzed-oxidizing water A diaphragm-type electrolyzer is used to electrolyze the sodium chloride aqueous solution to generate acid with low concentration of available chlorine and high oxidation-reduction potential on the anode side. The device of the aqueous solution.