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

GB 28233-2020

Replacing GB 28233-2011

Hygienic requirements for sodium hypochlorite generator

次氯酸钠发生器卫生要求

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1 Scope

GB 28233-2020 is the Chinese national standard on hygienic requirements for sodium hypochlorite 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 9 April 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 November 2020. 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 main component requirements, technical requirements, application scope, use methods, inspection methods, transportation, storage and packaging, as well as marking, nameplates and instruction manual of sodium hypochlorite generator. This Standard is applicable to sodium hypochlorite generator that produce sodium hypochlorite disinfectant.

2 Normative References

The following documents are essential to the application of this document. For the dated

documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 191 Packaging - Pictorial Marking for Handling of Goods

GB 2721 National Food Safety Standard - Edible salt

GB/T 5462 Industrial Salt

GB 5749 Sanitary Standard for Drinking Water

GB/T 5750.6 Standard Examination Methods for Drinking Water - Metal Parameters

GB 14930.2 National Food Safety Standard-Disinfectant

GB 18466 Discharge Standard of Water Pollutants for Medical Organization

GB/T 20621 Generator of Complex Chlorine Dioxide by Chemical Reaction

GB 37488 Hygienic Indicators and Limits for Public Places Technical Standard for Disinfection (2002 Edition) [Ministry of Health (WFJF [2002] No.282)] Sanitation and Safety Evaluation Specifications for Drinking Water Disinfectants and Disinfection Equipment (Trial Implementation) [Ministry of Health (WJDF [2005] No.336)]

3 Terms and Definitions

For the purpose of this document, the following terms and definitions apply.

3.1 Sodium hypochlorite generator A device that uses salt or industrial salt solution electrolysis to produce sodium hypochlorite disinfectant.

3.2 Sodium hypochlorite disinfectant A disinfectant with sodium hypochlorite as the main component, which is directly produced by the sodium hypochlorite generator and does not contain any added substances.

3.3 Available chlorine The amount of chlorine equivalent to the oxidizing ability of chlorine-containing disinfectants, which is a symbol of the oxidizing ability of chlorine-containing disinfectants.

4 Main Component Requirements

4.1 Electrode requirements Titanium, platinum, ruthenium, iridium and other metals and their coated electrodes shall be used to prepare sodium hypochlorite disinfectant. Graphite electrodes and lead dioxide electrodes shall not be used.

4.2 Display system Instruments, switches, indicators, signs, etc. shall be installed firmly, reliably and safely. The voltage, current, power, flow and other parameters shall be displayed on the display screen.

5.1 Equipment requirements

5.1.1 It shall include some structures such as automatic salt melting, rectifying power Disinfection (2002 Edition).

8.3 Flowrate It shall be performed in accordance with the provisions of GB/T 20621.

8.4 Inspection of lead, copper and cadmium content It shall be performed in accordance with the provisions of GB/T 5750.6.

8.5 Microbial killing effect It shall be performed in accordance with the provisions of Technical Standard for Disinfection (2002 Edition).

9 Transportation, Storage and Packaging

9.1 Transportation There shall be measures such as sun protection and rain protection during transportation; loading and unloading shall be avoided upside down; or storage and transportation shall be performed according to the order contract.

9.2 Storage The products shall be stored in a cool, dry place and a clean room with good ventilation.

9.3 Packaging

9.3.1 The package marking shall comply with the requirements of the relevant specifications and standards of the label instructions of the disinfection product.

9.3.2 The graphic marking shall meet the requirements of GB/T 191.

10.1 Marking

10.1.1 Rated value, available chlorine content and range.

10.1.2 Mark the use scope and use method of the product in accordance with the provisions of Clauses 6 and 7.