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

GB/T 19249-2017

Replacing GB/T 19249-2003

Reverse osmosis water treatment equipment

反渗透水处理设备

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1 Scope

GB/T 19249-2017 is the Chinese national standard on reverse osmosis water treatment equipment, in the field of construction materials and building. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 December 2017 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2018. Classification: ICS 91.140.60, CCS P41. 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 terms and definitions, classification and types, requirements, test methods, inspection rules, marking, packaging, transportation and storage of reverse osmosis water treatment equipment (hereinafter referred to as equipment). This Standard applies to equipment which uses reverse osmosis water membrane (including spiral wound type and disk-tube type) technology for the desalting, purification and separation treatment of water.

2 Normative references

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

applies to this document.

GB/T 150 (all parts), Pressure vessels

GB/T 191, Packaging - Pictorial marking for handling of goods

GB/T 5750 (all parts), Standard examination methods for drinking water

GB/T 9969, General principles for preparation of instructions for use of industrial products

GB/T 13384, General specifications for packing of mechanical and electrical product

GB/T 13922, Performance test for water treatment equipment

GB/T 17219, Standard for safety evaluation of equipment and protective mater

GB/T 20103, Technical terms for membrane separation

GB 50205, Code for acceptance of construction quality of steel structures The value which indicates the desalting efficiency of equipment.

3.6 permeate Product water which is obtained though the treatment of reverse osmosis equipment.

3.7 productivity The quantity of product water which is generated by membrane elements, assemblies and devices within unit time, under specified operating conditions. [

GB/T 20103-2006, definition 2.2.10]

3.8 water recovery The percentage of produced water amount to total water supply. [

6 Test methods

6.1 The test method for the pressure resistance performance of reverse osmosis water treatment equipment shall be as specified in GB/T 13922.

6.2 Use the manual method to verify whether the electrical (pneumatic) buttons, valves, etc. of equipment operate flexibly and smoothly; while energized, verify whether the electrical control system is sensitive and whether their operation and performance are

8.1.2 The marking plate shall include the following content: -- product type; -- manufacturer name and address; -- dimensions (LxWxH, in mm) and weight (in kg) of the main part of equipment; -- major technical parameters of equipment, including working pressure, maximum operating pressure, installed power and so on; -- production date and number.

8.1.3 The pictorial marking for packaging, storage and transportation of equipment shall be as specified in GB/T 191.

8.2 Packaging

8.2.1 The packaging of reverse osmosis water treatment equipment shall be as specified in

GB/T 13384; protective measures shall be taken for joints, pipe orifices, instruments, etc.

8.2.2 The documents accompanying reverse osmosis treatment equipment include: -- packing list; -- compliance certificate; -- instructions for use. The compilation of instructions for use shall be as specified in GB/T 9969.

8.3 Transportation The transportation of reverse osmosis water treatment equipment shall be as specified in the contract; it shall be handled with care to prevent collision and severe turbulence.

8.4 Storage

8.4.1 Reverse osmosis water treatment equipment shall be stored in a warehouse where it is cool, dry and well-ventilated. It shall not be piled up in the open air, or exposure to the sun, rain or heat sources. Attention shall be paid to fire prevention.

8.4.2 Reverse osmosis water treatment equipment shall not be storage together with toxic, corrosive, volatile or odorous items.