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

GB/T 13922.1-1992

Replacing GB/T 13922.1-1992; GB/T 13922.2-1992; GB/T 13922.3-1992; GB/T 13922.4-1992

**Performance test for water treatment equipment
(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/T 13922.1-1992 "General Performance Test water treatment equipment", GB/T 13922.2-1992 "Water is provided Preparation of the ion exchange performance test equipment ", GB/T 13922.3-1992" water treatment equipment filter performance test equipment ", GB/T 13922.4-1992 "water treatment equipment performance test deaerator." this standard GB/T 13922.1-1992, GB/T 13922.2-1992, GB/T 13922.3-1992, GB/T 13922.4-1992 were integrated, compared with the 1992 version, the main changes are as follows.

- Additions and modifications to some normative references;
- Additions and modifications to the terms and definitions;
- Chemical modification of some measure;
- Increased device performance test by the ion exchange "test conditions";
- Increase in device performance test by the ion-exchange in the exchange capacity, regenerant consumption, water consumption from renewable rate, in addition to carbon is carbon removal efficiency Determination of rate requests and calculation formulas;
- Filtration equipment test subjects increased efficiency fiber filters and iron removal filtration equipment;
- Increased backwash filtration equipment measuring intensity;
- Oxygen equipment test objects defined as thermal deaerator;

--- DO direct reference measurement method GB/T 12157, remove the GB/T 13922.4-1992 in Chapters 6 and 7 of content;

--- Oxygen equipment test requirements specified in a variety of hydrophobic not participating in the trial, simplifying the deaerator heat and fluid performance measurement and meter Calculation formula.

This standard by the National Standardization Technical Committee of the boiler pressure vessel (SAC/TC262) and focal points.

1 Scope

This standard specifies the requirements for equipment, filtration equipment, water treatment equipment and other thermal oxygen ion-exchange performance test, measurement and test the inspection report.

This standard applies to the above-described water treatment equipment product qualification test, after new installation or after transformation with equipment testing and commissioning when the performance test, performance test also applies to the use of economic assessment carried out in a water treatment device.

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 209 hydroxide for industrial use GB 320 industrial synthetic hydrochloric acid GB/T 534 industrial sulfuric acid GB/T 1226 General Pressure Gauge GB/T 1227 Precision pressure gauge GB/T 1576-2008 industrial boiler water quality GB/T 5462 industrial salt Resin Determination for water GB/T 5757 ion exchange Determination of the resin particle size, effective size and uniformity coefficient of GB/T 5758 ion exchange Resin Determination for water GB/T 5759 OH anion exchange Determination of exchange capacity of the resin GB/T 5760 OH anion exchange Determination of GB/T 6904 Industrial circulating cooling water and boiler water of pH GB/T 6907 boiler water and cooling water analysis water sample collection methods Determination of GB/T 6908 boiler water and cooling water conductivity analysis method Determination of GB/T 6909 boiler water and cooling water hardness Analysis GB/T 8144 Determination of cation exchange capacity of the resin exchange Determination of true density GB/T 8330 wet ion exchange resin Resins in wet density determination method GB/T 8331 ion exchange Resin Swelling Determination GB/T 11991 Ion exchange GB/T 11992-chloro-type strongly basic anion exchange resin exchange capacity determination Determination of total silicon GB/T 12148 boiler water and cooling water analysis method of low silicon content transformation hydrofluoric acid GB/T 12149 Determination of industrial circulating cooling water and boiler water in silicon

GB/T 12151 Determination of boiler water and cooling water turbidity analysis method
(Foma hydrazine turbidity) Determination of GB/T 12152 boiler water and cooling water and
oil content GB/T 12157 Determination of industrial circulating cooling water and boiler water
of dissolved oxygen GB/T 12598 ion exchange resin infiltration ball mill rate, measured after
grinding ball rate GB/T 13689 Determination of industrial circulating cooling water and
boiler water Copper