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

GB/T 30306-2024

Replacing GB/T 30306-2013

**Filter cartridges for household and similar drinking water
treatment**

家用和类似用途饮用水处理滤芯

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Foreword

This document was issued on 24 July 2024 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 February 2025.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies.

The document runs to 44 pages in translation. The identification, the dates, the table of contents and the clauses reproduced on this page are taken from the standard itself.

Household and similar purposes drinking water treatment filter

It replaces GB/T 30306-2013, which is superseded.

1 Scope

GB/T 30306-2024 is the Chinese standard for the filter cartridges used in household drinking water treatment: the activated carbon, PP fibre, ultrafiltration, reverse osmosis and composite cartridges inside a domestic water purifier. The cartridge is the part that does the work, the part that has to be replaced, and the part on which every performance claim depends, which is why it is standardised separately from the appliance. The standard sets the classification and designation of the cartridge types, the requirements on the materials and on their contact with drinking water, the structural and dimensional requirements including the fitting interfaces, the performance requirements covering the flow rate and the pressure drop, the total treated water capacity and the service life, the reduction rate for the contaminants each type is claimed to remove, the pressure and burst resistance, the leak tightness and the microbiological requirements, together with the test methods, the inspection rules and the marking, packaging, transport and storage. The 2024 edition replaces GB/T 30306-2013. For a cartridge maker, an appliance brand or a buyer in China, this is the acceptance text.

This document specifies the classification, designation, requirements, inspection rules, marking, packaging, transportation, and storage of household and similar purposes drinking water treatment filters (hereinafter referred to as "drinking water treatment filters"), and describes the corresponding test methods.

This document is applicable to the production, inspection, and sale of drinking water treatment filters for household and similar purposes drinking water treatment devices. This document may serve as a reference for filters with water treatment function for other products.

2 Normative references

The following documents contain requirements which, through reference in this text, constitute provisions of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

GB/T 1019 General requirements for the package of household and similar electrical appliances

GB/T 2828.1 Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829 Sampling procedures and tables for periodic inspection by attributes (Apply to inspection of process stability)

GB/T 5121.27 Methods for chemical analysis of copper and copper alloys - Part 27: The inductively coupled plasma atomic emission spectrometric method

GB/T 5121.28 Methods for chemical analysis of copper and copper alloys - Part 28: Determination of chromium, iron, manganese, cobalt, nickel, zinc, arsenic, selenium, silver, cadmium, tin, antimony, tellurium, lead and bismuth content - Inductively coupled plasma-mass spectrometry

GB 5749 Standards for drinking water quality

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

GB/T 6040 General rules for infrared analysis

GB/T 6682 Water for analytical laboratory use - Specification and test methods

GB/T 7999 Optical emission spectrometric analysis method of aluminum and aluminum alloys

GB 8538 National food safety standard - Methods for examination of natural mineral drinking water

GB/T 11170 Stainless steel - Determination of multi-element contents - Spark discharge atomic emission spectrometric method (Routine method)

GB/T 17218 Hygienic safety evaluation for chemicals used in drinking water treatment

GB/T 17219 Standard for safety evaluation of equipment and protective materials in drinking water system

GB/T 20103-2006 Technical terms for membrane separation

GB/T 20197 Define, classify, marking and degradability requirement of degradable plastic

GB/T 12496.1 Test methods of wooden activated carbon - Determination of apparent density

GB/T 12496.8 Test methods of wooden activated carbon - Determination of iodine number

GB/T 12496.10 Test methods of wooden activated carbon - Determination of methylene blue adsorption

GB/T 19466.1 Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles

GB/T 19466.2 Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature

GB/T 19466.3 Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization

GB 21551.2 Antibacterial and cleaning function for household and similar electrical

appliances - Particular requirements of material

GB/T 24127 Testing method for determining algal resistance of plastics

GB/T 24234 Cast iron - Determination of multi-element contents - Spark discharge atomic emission spectrometric method (Routine method)

GB/T 26042 Methods for analysis of zinc and zinc alloys - The optical emission spectrometry

GB/T 30307-2023 Household and similar drinking water treatment units

GB 31604.10 National food safety standard - Food contact materials and articles - Determination of migration of 2,2-bis (4-hydroxyphenyl) propane (bisphenol A)

GB 34914 Minimum allowable value of water efficiency and water efficiency grades for water purifier

GB/T 39560.1 Determination of certain substances in electrical and electronic products - Part 1: Introduction and overview

GB/T 39560.2 Determination of certain substances in electrical and electronic products - Part 2: Disassembly, disjointment and mechanical sample preparation

GB/T 39560.301 Determination of certain substances in electrical and electronic products - Part 3-1: Screening lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

GB/T 39560.4 Determination of certain substances in electrical and electronic products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS

GB/T 39560.5 Determination of certain substances in electrical and electronic products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS

GB/T 39560.6 Determination of certain substances in electrical and electronic products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS)

GB/T 39560.701 Determination of certain substances in electrical and electronic products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium [Cr (VI)] in colorless and colored corrosion-protected coatings on metals by the colorimetric method

GB/T 39560.702 Determination of certain substances in electrical and electronic products - Part 7-2: Hexavalent chrome - Determination of hexavalent chrome [Cr (VI)] in polymers and electronics by the colorimetric method

ISO 11358-1 Plastics - Thermogravimetry (TG) of polymers - Part1: General principles