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

CJ/T 47-1999

Replacing CJ 47-1999

**Filter underdrain block for water and wastewater treatment
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces CJ/T 47-1999 "water treatment with ceramic double-layer filter brick," compared with the CJ/T 47-1999, the main technical changes as follows.

- Modify the standard name;
- Added terms and definitions (see Chapter 3);
- Remove the ceramic material (see the 1999 edition of the range);
- Increased high-density polyethylene material (see 5.1);
- Increased distribution of gas distribution (see Chapter 6);
- Modify the appearance, size, opening method and hole rate, compressive strength, single brick quality indicators (see 6.2);
- Increased impact strength, cold resistance, heat resistance, antioxidant properties, drop strength, health performance, quite a filter process open Porosity and other indicators (see Table 3).

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Water Supply and Drainage Municipal Standardization Technical Committee centralized.

This standard was drafted. Zhongnan Design and Research Institute Co., Ltd. China Municipal Engineering, Xiamen Feihua Environmental Protection Equipment Co., Ltd., Yixing City Product Quality Supervision and Inspection, Taizhou Zhongchang Water Treatment Equipment Co., Ltd., Hong Yu Construction Co., Ltd., Fujian Hong Construction and Investment Co., Ltd..

1 Scope

This standard specifies the terms and definitions of filter bricks for water treatment, classification, materials, requirements, test methods, inspection rules, signs, packaging, transport and storage.

This standard applies to the manufacture and testing of filter bricks for water treatment.

2 Normative references

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

GB/T 191 Packaging - Pictorial signs GB/T 11115-2009 Polyethylene (PE) resin GB/T 11547 Plastics - Determination of resistance to liquid chemicals GB/T 14486 plastic molding dimensional tolerances GB/T 17219 drinking water distribution equipment and protective materials safety evaluation criteria GB/T 21873 rubber seal to the drain pipe and sewer pipe interface seal material specifications GB/T 28604 drinking water system plumbing seals GB 50164 concrete quality control standards

3 Terms and definitions

The following terms and definitions apply to this document.

Water treatment filter with filter for drainage and wastewater treatment A filter for the same time with water distribution or only water distribution products (hereinafter referred to as "filter brick").

Support plate mediaretentionplate Multi-well plates for use with filter bricks to replace gravel or other forms of support.

Filter opening rate perforatedarearate the total area of the opening of the filter brick and the area of the area where the opening is located.

4.1 Type I filter

Type I filter brick for the second or more water distribution with gas filter brick, suitable for water supply, drainage and reclaimed water and other projects in the filter. Filter brick as a whole Hollow belt support columnar, cross-section for the next small big rectangular

approximate composite shape. Trapezoidal support set a distribution of water with air, complex shape Shape the top of the frame (surface layer) with secondary distribution of water distribution pores. Type I brick structure diagram shown in Figure 1, Figure 2.