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CJ/T 409-2012

**Technical Requirement of
Fiber-Glass Reinforced Plastic Septic Tank**

玻璃钢化粪池技术要求

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard was proposed by Standard and Quantity Institute, Ministry of Housing and Urban-Rural Development.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Building Water Supply and Drainage - Ministry of Housing and Urban-Rural Development.

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Technical Requirement of Fiber-Glass Reinforced Plastic Septic Tank

1 Scope

This Standard specifies the raw material, model and structure, requirements, test methods, inspection rules, label, package, transportation and storage of fiber-glass reinforced plastic septic tank (herein after refers to “septic tank”).

This Standard is applicable to the septic tank with raw materials of glass fiber and unsaturated polyester resin.

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 Standard.

GB/T 1447 Test Method for Tensile Properties of Glass Fiber - Reinforced Plastics

GB/T 1449 Test Method for Flexural Properties of Glass Fiber - Reinforced Plastics

GB/T 1462 Test Methods for Water Absorption of Fiber Reinforced Plastics

GB/T 2575 Test Method for Resistance of Glass Fiber Reinforced Plastics to Water

GB/T 3854 Test Method for Hardness of Reinforced Plastics By Means of Barcol Impresser

GB/T 8237 Liquid Unsaturated Polyester Resin for Fiber Reinforced Plastics

GB/T 18369 Glass Fiber Roving

GB/T 18370 Glass Fibre Woven Roving

GB/T 21238 Glass Fiber Reinforced Plastics Mortar Pipes

6.6 Water absorption rate

It shall be measured as per GB/T 1462.

6.7 Water resistance

It shall be measured as per GB/T 2575.

6.8 Impact strength

In the place over the central position of the septic tank (avoid the cleaning hole), use a 2000g steel ball to conduct free fall from the height 2m; measure at the place where the steel ball impacts.

6.9 Leakage test

Fix the septic tank in backfill or other modes; seal the inlet and outlet, fill the tank with water thoroughly; stand for 24h to observe; there shall be no leakage or obvious deformation phenomena.

6.10 Initial ring stiffness

It shall be measured as per GB/T 21238.

7 Inspection Rules

Inspection is divided into exit-factory inspection and type inspection.

7.1 Exit-factory inspection

7.1.1 Inspection items

Before each septic tank leaves the factory, it shall conduct inspection items in 5.1, 5.2 and 5.3.6.

7.1.2 Judgment rules

If each item in exit-factory inspection conforms to the requirements, then the product shall be judged as qualified. If there are disqualified items, the product shall be repaired once, then re-inspect; if it is still disqualified after repairing, then judge this batch of products as disqualified.

7.2 Type Inspection

7.2.1 Type inspection conditions

Type inspection includes all items in Chapter 5. When one of the following conditions

occurs, the type inspection shall be conducted:

- a) When determining the product model and put into production;
- b) When raw materials and formulation have significant changes, which may affect the product performance;
- c) Conduct the inspection every three years for normal production;
- d) Restore production when shutdown for more than half a year.

7.2.2 Sampling

Conduct sampling from the qualified products in exit-factory inspection.

7.2.3 Judgment

After inspection, if there are disqualified items, allow for double sampling and re-inspecting. After that, if there are still disqualified items, then such batch of product shall be judged as disqualified.

8 Label, Package, Transportation and Storage

8.1 Label

After test is qualified, the products shall have the following labels:

- a) Trademark;
- b) Serial number;
- c) Product name;
- d) Specification, model;
- e) Direction marks for the inlet and outlet water pipe;
- f) Manufacturer name;
- g) Contact phone;
- h) Production reference standards.

8.2 Package

Generally, the septic tank shall not be packed.

When leaving the factory, the septic tank shall have qualification certificate, and

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