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

JG/T 551-2018

Replacing JG/T 5061.4-1995

**Fixed piston thin-wall sampler
(English Translation)**

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Foreword

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

This standard replaces JG/T 5061.4-1995 "Fixed Piston Thin Wall Earth Reader". Main technology compared to JG/T 5061.4-1995 the changes are as follows.

- Updated the reference standard and adopted the latest domestic technical standards;
- Revised part of the material technical requirements, test methods, inspection rules, signs, packaging, transportation, storage, etc.;
- The main parameter code increases the outer diameter/inner diameter requirements;
- Added model TA127x102.6x99.1;
- JG J89 "Undisturbed Soil Sampling Technical Standard" was adjusted to JG J/T 87 "Technical Regulations for Geological Exploration and Sampling of Construction Engineering";
- The product replacement standard, storage conditions, factory certificate, environmental protection, resource conservation, durability requirements and other content have been clarified.

This standard was proposed by the Institute of Standardization of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Technical Committee for Engineering Survey and Measurement Standardization of the Ministry of Housing and Urban-Rural Development.

The main drafting unit of this standard. Construction of Comprehensive Investigation and Design Institute Co., Ltd., Sinopec Metallurgical Investigation and Design Institute Limited Liability the company.

Participated in this standard. Guizhou Provincial Construction Engineering Investigation Institute, Hebei Construction Investigation and Research Institute Co., Ltd., Changjiang Geotechnical Engineering Corporation (Wu Han), Northwest Comprehensive Survey and Design Institute, Shanghai Jinyin Geotechnical Investigation Equipment Co., Ltd., Xinjiang Uygur Autonomous Region Architectural Design and Research Institute, China Ordnance Industry Northern Survey and Design Institute Co., Ltd., Central South Survey and Design Institute (Hubei) Co., Ltd., China Nonferrous Metals Industry Kunming Survey and Design Institute Co., Ltd.

1 Scope

This standard specifies the classification and marking of fixed piston thin-walled earth borers, requirements, test methods, inspection rules and signs, packaging, transportation and Storage.

This standard is applicable to earth borers that use flow plastic, soft plastic, and silt, silt I grade soil samples.

2 Quoted text

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 197 ordinary thread tolerance GB/T 3639 cold drawn or cold rolled precision seamless steel pipe GB/T 9808 seamless steel pipe for drilling GB/T 15519 chemical conversion film steel black oxide film specification and test method GB 50021 Geotechnical Investigation Specification DZ25 geological drilling drill pipe lock joint JG J/T 87 Technical Specifications for Construction Engineering Geological Exploration and Sampling

3 Terms and definitions

The following terms and definitions apply to this document.

Fixed piston thin-walled earth borer fixedpistonthin-walsampler the inner diameter is 75mm~100mm, the area ratio is not more than 10% (the inner gap ratio is 0) or the area ratio is 10%~13% (the inner gap ratio is 0.5~1.0) linerless fixed piston type earth borer.

Internal clearance ratio insideclearanceratio the ratio of the difference between the inner diameter of the sampling tube and the inner diameter of the cutting edge to the inner diameter of the cutting edge.

Area ratio the ratio of the difference between the outer diameter of the sampling tube and the internal area of the cutting edge and the internal area of the cutting edge.

4.1 Classification

The fixed piston thin-walled earth borrower takes the outer diameter of the sampling tube as the main parameter, and the common specifications are shown in Table 1.