

ICS 07.060
CCS P10



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

GB/T 12746-2007

Replacing GB/T 12746-1991

**Geotechnical engineering instrument for test penetration test
apparatus**

土工试验仪器 贯入仪

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Standardization Administration of China**

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Foreword

This standard is GB/T 12746-1991 "standard penetrometer" amendments. The main difference compared with the standard GB/T 12746-1991 as follows:

- Increased emphasis penetrometer and pocket penetrometer technical content;
- Increased penetrometer environment, storage environmental requirements;
- Increase the working environment requirements and material requirements;
- Complements the inspection rules and signs, packaging, transportation and storage requirements;
- On the provisions of the relevant contents of the original provisions and adjustments were made to broaden appropriate, and be clarified;
- The technical contents of this standard, related primarily to product design, manufacturing, testing and test related product standards, technical Select the application preparation conditions. The standard proposed by the People's Republic of China Ministry of Water Resources. This standard by the Department of International Cooperation, Science and Technology. This standard is mainly drafted by: MWR hydrological instruments and geotechnical engineering Instrument Quality Supervision, Inspection and Testing Center, Nanjing Electric Power Automation provided Preparation Plant, Nanjing Hydrological Institute of Automation. Participated in the drafting of this standard. Nanjing Hydraulic Research Institute, Nanjing Soil Instrument Co., Ltd. The main drafters of this standard. Bao Liang blunt, Zhao Yue, Xu Yue, Li Gang. Participate drafters of this standard. Yaoyong Xi, Guan Ping Hung, Zhugui Min, Guo Gongze, Zhu Aihua. This standard replaces the previous standard published case.
- GB/T 12746-1991. Soil test equipment penetrometer

1 Scope

GB/T 12746-2007 is the Chinese national standard on geotechnical engineering instrument for test penetration test apparatus, in the field of natural and applied sciences. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding

as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 11 June 2007 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 September 2007. Classification: ICS 07.060, CCS P10. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the soil test instrument penetrometer classification and composition, technical requirements, test methods, inspection rules and signs, said use Specification, packaging, transportation and storage. This standard applies to the determination of penetration impedance standard penetrometer. This standard is also applicable to estimate soil bearing capacity pocket penetrometer and aggravate penetrometer.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191-2000 Packaging - Pictorial signs

GB/T 1958-2004 Geometrical Product Specifications (GPS) shape and position tolerance testing requirements

GB/T 9359-2001 hydrological instruments environmental testing conditions and methods

GB 9969.1 Instructions General Industrial Products

GB/T 11884-2000 spring dial scale

GB/T 15464 instrumentation packaging technology

GB/T 50279 Standard for fundamental terms of geotechnical engineering

3 Terms and Definitions

GB/T 50279 and established the following terms and definitions apply to this standard.

3.1 The kinetic energy of the hammer to a predetermined standard of penetration is hit into the soil at the bottom of the borehole to a predetermined depth, and measuring and recording the corresponding standard In situ geotechnical penetrometer test equipment hit

numbers.

3.2 By the partial probe, measuring devices, reading devices and other components, estimate soil bearing capacity, rapid assessment portable test instrument soil bearing capacity.

3.3 Quality mandrel hammer heavier, off a high increase in the penetration of the outer diameter of the enlarged penetrometer.

3.4 Standard penetrometer, increased penetrometer assembled by the penetration device boots, waffle cones, penetration head, drain holes and other devices from the penetration side In contact with the soil type, carrying its penetration resistance of rigid metal utensils.

3.5 Pocket penetrometer rigid metal body having a predetermined shape and size and direct way to CPT soil contact.