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JG/T 246-2009

**Apparatus to determine air content of fresh concrete
(English Translation)**

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Foreword

This standard is proposed by the Institute of Standards and Valuation of the Ministry of Housing and Urban-Rural Development.

This standard by the Ministry of Housing and Urban and Rural Construction Engineering standard technology focal point focal point.

This standard is responsible for drafting units. China Building Science Research Institute,

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Jialou City Construction Engineering Quality Inspection Center, Tangshan Zhongquan Construction Engineering Materials Inspection Co., Ltd., Wuxi Jian Yi Instrument Machinery Co., Ltd., North Beijing three thinking line monitoring and control Technology Co., Ltd., Beijing Zhonghong Sheng Construction Engineering Detection Co., Ltd., Building Materials Co.,

1 Scope

This standard specifies the classification and labeling, composition and conditions of use of the concrete direct reading air pressure type gas meter (hereinafter referred to as gas content meter) and materials, requirements, test methods, inspection rules, marking, packaging, transportation and storage.

This standard applies to the design, production and quality inspection of gas meters.

2 Normative reference documents

The terms of the following documents are incorporated by reference in this standard and are the terms of this standard. Any reference to the date of the document, (Excluding corrigenda) or revisions do not apply to this standard, however, encourage the parties to reach an agreement under this standard Whether the latest version of these files can be used, and the most recent version of the referenced document, which is not dated, applies to this standard.

GB/T 1227 precision pressure gauge Classification and marking

3.1 Classification

According to direct display is divided into.

- a) pointer type, code-named Z;
- b) the number of explicit, code-named S.

3.2.1 Marking methods

The marking of the gas meter consists of the gas meter code, the direct reading display code and the three parts of this standard, as follows.

3.2.2 Example of marking

a) The indicator gas meter is expressed as.

HQZ JG/T 246-2009;

b) The digital gas meter is expressed as.

HQS JG/T 246-2009.

4.1 Composition

Gas meter mainly by the container and the cover of two parts, as shown in Figure 1.

1 - gas content - pressure gauge;

2 --- operating valve;

3 --- exhaust valve;

4 - fixed clip;

5 --- cover;

6 --- container;

7 --- inlet valve;

8 --- intake valve;

9 --- air chamber;

10 --- take water pipe;

11 --- calibration tube.

a) the use of inflatable cylinder pressure meter 1 - gas content - pressure gauge;

2 --- operating valve;

3 --- exhaust valve;

4 - fixed clip;

5 --- cover;

6 --- container;

7 --- inlet valve;

8 --- hand pump;

9 --- air chamber;

10 --- take water pipe;

11 --- calibration tube;

12 - air chamber exhaust valve.

b) the use of hand pump pressure meter

Figure 1 gas meter structure diagram

The use of inflatable pump pressure meter, cover part of the main by the inlet valve, intake valve, air chamber, operating valve, exhaust valve and gas - pressure

Table or digital display system, etc. The use of hand pump pressure meter, the lid part of the main by the inlet valve, hand pump, air chamber, air chamber exhaust

Valves, operating valves, exhaust valves and gas content - pressure gauge or digital display system, etc. Water pipes and calibration tubes are used at the timing of the instrument.

4.2 Conditions of use

The gas meter should be used and verified at a temperature of $20^{\circ}\text{C} \pm 10^{\circ}\text{C}$. When the ambient temperature is outside this range, the gas meter should be re-set before use.

Digital display gas meter should be equipped with automatic temperature correction system.

The new purchase of gas meter, the instrument should first be calibrated rate, its gas - pressure gauge or digital display of gas content should be with the container the amount of air contained in the percentage of the equivalent, otherwise it should be adjusted for the use of gas meter, according to the use of the rate of determination, the longest Once a year, and the original rate of the difference between the value should be less than equal to 0.2%, when the error exceeds this value should be adjusted or repaired.

4.3 Materials

The gas containing container and the lid shall be made of hard metal which is corrosion resistant to the slurry and shall be of the same material as the container.

5.1 Containers and covers

The diameter and depth of the container shall be equal to the volume of $7000\text{ mL} \pm 25\text{ mL}$. The container mouth and the part of the lid and the container shall be connected the surface of the container, the surface of the container connected to the lid and the inner surface of the lid body shall be machined as smooth surface, and the surface roughness is not should be lower than $R\text{ a }1.6$.