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

GB/T 13465.4-2014

Replacing GB/T 13465.4-2002

**Test method of impermeable graphite materials -- Part 4: Impact
strength**

不透性石墨材料试验方法 第4部分：冲击强度

(English Translation)

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Foreword

GB/T 13465 "impervious graphite material testing method" is divided into 10 parts.

- Part 1. General Mechanical tests;
- Part 2. flexural strength;
- Part 3. Compressive strength;
- Part 4. the impact strength;
- Part 5. phenolic adhesive shrinkage;
- Part 6. Hydraulic Blasting graphite tube;
- Part 7. weight gain and fill porosity;
- Part 8. Adhesive shear strength;
- Part 9. Adhesive tensile strength;
- Part 10. tensile strength.

This section is GB/T Part of 413,465.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 13465.4-2002 "strength test impervious graphite material impact", and GB/T 13465.4-2002 Compared to the main technical changes are as follows.

- Pendulum impact testing machine speed by 2.9m/s adjusted to 3m/s.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Non-metallic chemical equipment Standardization Technical Committee (SAC/TC162) centralized.

This section is drafted. Tianhua Institute of Chemical Machinery and Automation Ltd., Lanzhou Railway Bureau, scientific and technical supervision, Guangzhou City Special Pressure Equipment Inspection and Research Institute, Nantong Knight Graphite Equipment Co., Ltd., Nantong planet graphite Equipment Co., Ltd., Nantong Jingtong Stone Mexican Equipment Co., Ltd. Shanghai Branch Graphite Products Co., Ltd. Pan.

1 Scope

GB/T 13465 provisions of this part of the determination of impervious graphite material impact test apparatus and impact strength of the absorbed energy used, samples, Test procedures and results of the calculation method.

This section applies to the determination of simply supported beam in the state absorbed energy impervious graphite material and impact strength.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 13465.1 impermeable graphite materials - Test methods - Part 1. General Mechanical tests JJG145 Charpy impact test machine

3 Terms and Definitions

GB/T 13465.1 defined and the following terms and definitions apply to this document.

Impact energy absorbing energy of impact test Impervious graphite specimen having a certain shape and size of the impact loading when the damage absorbed power.

Impact strength Notch impact energy divided by the cross-sectional area at the bottom of the quotient.

4.1 Basic requirements

Test instruments and equipment shall comply with the relevant provisions of GB/T 13465.1 of.

4.2 Impact Tester

4.2.1

The testing machine pendulum blade holder and size should meet the requirements of Figure 1.

Structure 4.2.2 tester should have sufficient rigidity, on a stable work surface, the level of

the test machine base is 0.5/1000.

4.2.3

Standard test machine blow energy 0.490J, 0.981J and 3.923J, test machine used normally in the range of each pendulum biggest blow 10% to 90% of the energy.

4.2.4

pendulum impact test machine speed of 3m/s.

4.2.5

JJG145 testing machine shall comply with the technical requirements.