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

中华人民共和国国家标准

GB/T 9096-2002

**Sintered metal materials, excluding hardmetals
—Impact test method**

烧结金属材料（不包括硬质合金）冲击试验方法

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Foreword

This standard is modified based on GB/T 9096-1988 "Sintered Metal Materials, Excluding Hardmetals --- Impact Test Method". The modification is shown as follows:

1. "Impact toughness" is changed to "impact toughness" according to GB/T 10623-1989 Metallic material - Mechanical testing – Vocabulary.

2. In the case of examining the difference of the pointer directing zero before test when pendulum hammer strikes empty, the difference back to zero shall not exceed "0.5% of the maximum impact energy changed" to "shall not exceed 1/4 of the minimum scale interval".

Since the publication of this standard, replace GB/T 9096-1988.

This standard is proposed by China Machinery Industry Federation.

This standard is under jurisdiction of National Technical Committee on Machinery Industry and Sintered Metal Products.

This standard is drafted by Beijing Sintered Metal Research Institute and Steel Research Institute.

Main drafters of this standard include XU Hang, HAO Ying, CHEN Wei, JIANG Zhenchun and ZHENG Shuying.

This standard is firstly published in April 1988.

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

Sintered Metal Materials, Excluding Hardmetals --- Impact Test Method

GT/T 9096-2002

Replace GB/T 9096-1988

1. Scope

This standard specifies the impact test method of sintered metal materials in the ambient temperature (excluding hardmetals).

This standard is applicable to measure the impact absorbing energy of the sintered metal sample under Charpy status fractures after one impact load.

2. Normative references

The articles contained in the following documents have become this Standard when they are quoted herein. For the dated documents so quoted, all the modifications or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 2975-1998 Steel and steel products--Location and preparation of test pieces for mechanical testing

GB/T 3808-1995 Pendulum impact testing machines

GB/T 8170-1987 Rules for rounding off of numerical values

JJG 145-1982 Verification Regulation of Pendulum Impact Testing Machine

3. Terms and definitions

For the purpose of this standard, the following terms and definitions shall apply.

3.1 Impact absorbing energy

Refer to the energy that the sample of the regulated shape and dimension absorbs when it fractures after one test impact load (GB/T 10623-1989, 6.1).



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