

ICS 29.100.10

CCS L19



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

GB/T 12796.2-2012

Replacing GB/T 12797-1991

**Permanent ferrite magnets - Part 2: Sectional specification for
permanent ferrite magnets for use in micromotors**

永磁铁氧体磁体 第2部分：微电机用永磁铁氧体磁体分规范

Issued on: December 31, 2012

Implemented on: June 1, 2013

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Classification and requirements

Foreword

GB/T 12796 "permanent ferrite magnets" is divided into the following sections.

--- Part 1. Generic specification;

--- Part 2. Micro-motor specification for permanent ferrite magnets. This is Part 2 GB/T 12796 in. Rules in this section in accordance with GB/T 1.1-2009 given draft. This Part replaces GB/T 12797-1991 "micro-motor specification for permanent ferrite magnets." This section compared with GB/T 12797-1991, the following changes.

--- Increasing the magnet surface roughness, geometric tolerances and appearance requirements and test methods, and in the identification of inspection and quality conformance inspection Experiments increase the corresponding test items (see Chapter 4);

--- Increasing the temperature coefficient of the residual magnetic flux density α_{Br} , methods of measurement in the temperature coefficient of intrinsic coercivity α_{HCJ} (see 4.2.3);

--- Standard standard name and number have been adjusted;

--- Edit the format re-adjusted. This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This part of the National Magnetic components and ferrite materials Standardization Technical Committee (SAC/TC89) centralized. This section drafted by: Yi Bin Jinchuan Electronics Co., Ltd. The main drafters of this section. Liliang Jun, Wang, Xu Xiaoli, Huang Jialin, Pengshu Tang. This part of the standard replaces the previous editions are.

--- GB/T 12797-1991. Permanent ferrite magnets Part 2. Micro-motor with permanent ferrite magnets Specification

1 Scope

GB/T 12796.2-2012 is the Chinese national standard on permanent ferrite magnets - part 2: sectional specification for permanent ferrite magnets for use in micromotors, in the field of electrical engineering. 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 31 December 2012 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 June 2013. Classification: ICS 29.100.10, CCS L19. 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 section GB/T 12796 requirements of micro motor with permanent ferrite sintered magnet (hereinafter referred to as "magnet") to test the performance and Beg. And select the test methods suitable for detailed specifications from GB/T 12796.1-2012 in. This section applies to a variety of micro-motor with a ring, tile and other shaped magnet.

2 Normative references

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

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

GB/T 10610 Geometrical Product Specifications Surface texture Profile method - Rules and procedures for evaluation of the surface structure

GB/T 12796.1-2012 permanent ferrite magnets - Part 1. Generic specification SJ/T10742 electronic ceramic parts tolerance SJ/T11247 permanent ferrite tile-shaped magnets tolerances and shape defects

3 Classification and requirements

3.1 Classification Magnets are classified according to the following provisions.

- a) shape, such as a ring magnet, tile-shaped magnets;
- b) size, for example. H85 x 45 x 10, CW52 x 44 x 29;
- c) material category or level. Typically, the detail specification shall be one shape, one category or grade magnets.

Note. Because no complete material category or level requirements, so each detail specification shall specify the materials used categories or levels.

3.2 Requirements The detail specification shall prepared in accordance with this section and shall comply with the appropriate blank detail specification requirements. The magnet

structure, dimensions, surface roughness, magnetic materials and magnets and magnet mechanical and environmental resistance should be detailed Fine predetermined specifications, and meet the following requirements.

- a) are not magnet NOTE dimensional tolerances and geometric tolerances shall comply with SJ/T10742 of;
- b) allowing the magnet leakage grinding, but the size of the magnet should be within their tolerance range;
- c) Unless otherwise specified, the appearance of the magnet should be consistent with the provisions of a detailed specification, and meet the following requirements. 1) magnet cosmetic defects (loose debris, residue or attachment surface, off-chip, cracks and other defects) does not affect the meet The minimum required magnetic performance micro-motor electric energy requirements;