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PEOPLE'S REPUBLIC OF CHINA**

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**Technical specification of sintered rare earth permanent
magnet splicing**

烧结稀土永磁体拼接技术规范

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Rare Earth Standardization Technical Committee (SAC/TC229).

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Technical Specifications for Splicing Sintered Rare Earth Permanent Magnets

1 Scope

This document specifies the requirements for sintered rare earth permanent magnet materials, bonding assembly, machining and surface protection for sintered rare earth permanent magnet splicing.

The corresponding detection and testing methods are described.

This document is applicable to the use of adhesive bonding, with the purpose of reducing eddy current loss and improving surface magnetism, and only includes sintered rare earth permanent magnet materials and adhesives.

Manufacturing process of sintered rare earth spliced permanent magnets with adhesive.

2 Normative references

GB/T 2423.50

GB/T 4180

GB/T 6462

GB/T 7124

GB/T 13560

GB/T 34491

GB/T 38437

GB 39176

GB/T 40790

GB/T 40793

GB/T 40794

GB/T 42160-2022

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Unit component magnets

A single permanent magnet is made of sintered rare earth permanent magnet material through machining and surface protection or only machining.

Note. Sintered rare earth permanent magnet materials include sintered rare earth iron boron or rare earth cobalt permanent magnet materials. Sintered rare earth iron boron is sintered neodymium iron boron permanent magnet materials, grain boundary diffusion A general term for NdFeB permanent magnet materials, sintered cerium and cerium-rich permanent magnet materials.

3.2 Adhesive magnets

A permanent magnet is obtained by bonding two or more unit bodies prepared only by mechanical processing with an adhesive.