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High purity nickel target

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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 is required.

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 is proposed by China Nonferrous Metals Industry Association.

This document is under the jurisdiction of the National Technical Committee on Standardization of Nonferrous Metals (SAC/TC 243).

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1 Scope

This document specifies the classification, technical requirements, test methods, inspection rules, marking, packaging, transportation, storage and accompanying materials of high purity nickel targets.

Line documents and order form contents.

This document applies to high purity nickel targets used in the semiconductor industry.

2 Normative references

GB/T 1031

GB/T 6394

GB/T 8651

GB/T 14265

GB/T 25915.1-2021

GB/T 39159

3 Terms and Definitions

The terms and definitions defined in GB/T 39159 apply to this document.

4 Categories

4.1 Products are divided into round and square shapes according to their appearance, or the purchaser can provide drawings.

4.2 The product is divided into three brands according to chemical composition. Ni4N, Ni4N5 and Ni5N.

4.3 Products are divided into composite targets and monomer targets according to their structural form. The structural diagram is shown in Figure 1.

a) Composite target b) Single target Description of index number. 1- Target blank; 2-Backboard.

Figure 1 Schematic diagram of target structure

5.1 Chemical composition

The chemical composition of the product shall comply with the requirements of Table 1 and Table 2.