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Silver and silver alloy powder for additive manufacturing

增材制造用银及银合金粉

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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 is proposed by China Nonferrous Metals Industry Association.

This document was prepared by the National Technical Committee on Standardization of Nonferrous Metals (SAC/TC243) and the National Technical Committee on Standardization of Additive Manufacturing (SAC/TC562) jointly under the jurisdiction of the Commission.

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Silver and silver alloy powders for additive manufacturing

1 Scope

This document specifies the classification and marking, technical requirements, test methods, inspection rules, marking, packaging, Transportation, storage and accompanying documents and order contents.

This document is applicable to the preparation of materials by inert gas atomization, plasma rotating electrode method, plasma atomization method, plasma spheroidization method, etc.

Silver and silver alloy powders for additive manufacturing.

2 Normative references

GB/T 1479.1

GB/T 1480

GB/T 1482

GB/T 5162

GB/T 5314

GB/T 17832

GB/T 19077

GB/T 28021

GB/T 35351

3 Terms and Definitions

The terms and definitions defined in GB/T 35351 apply to this document.

4.1 Product Categories

The product can be divided into two grades, PAg990 and PAg925, according to chemical composition; and divided into two categories, Class I and Class II, according to powder specifications.

Among them, Class I is applicable to the field of laser powder bed fusion additive manufacturing, and Class II is applicable to the field of electron beam powder bed fusion additive manufacturing.

4.2 Product Marking

Product marking consists of the following parts. Indicates powder Alloy composition (using chemical element symbols to express alloy composition, The number after the element symbol indicates the mass fraction of the main element) Category (Class I and Class II)