

ICS 25.030
CCS J 07



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

GB/T 45751-2025

Additive manufacturing - Process classification and coding

增材制造 工艺分类和编码

Issued on: May 30, 2025

Implemented on: December 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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 by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Additive Manufacturing Standardization Technical Committee (SAC/TC562).

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Additive Manufacturing Process Classification and Coding

1 Scope

This document describes the classification elements and methods and coding principles and methods for additive manufacturing processes.

This document is suitable for classifying and coding additive manufacturing processes.

2 Normative references

GB/T 10113-2003

GB/T 35351

3 Terms and definitions

The terms and definitions defined in GB/T 10113-2003 and GB/T 35351 and the following apply to this document.

3.1 Coding

The process of assigning a code to an object or concept.

[Source. GB/T 10113-2003, 2.2.1]

3.2

Each component in the code of the classification object.

3.3 [Source. GB/T 10113-2003, 2.1.5, modified]

The classification objects are divided into several levels according to several selected

attributes (or characteristics), and each level is divided into several categories.

Note. Categories at the same level in the same branch form a parallel relationship, while categories at different levels form a subordinate relationship.

3.4 [Source. GB/T 10113-2003, 2.1.6]

Select several attributes (or features) of the classification object, and divide the classification object into a group of independent categories according to each attribute (or feature).

Group categories to form a "surface". Then arrange the "surfaces" in parallel in a certain order. When using, place the corresponding categories in the relevant "surface" as needed.

Group them together in the specified order of "faces" to form a new composite category.

3.5 [Source. GB/T 10113-2003, 2.1.7]

An information classification method that combines line classification and surface classification, with one of the classification methods as the main one and the other as a supplement.