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**RAILWAY INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

TB/T 3137-2006

Rules for railway product identification code

铁路产品标识代码编制规则

(English Translation)

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Foreword

Annex A of this Standard is normative. Annex B and Annex C are informative.

This Standard was proposed by and shall be under the jurisdiction of National Technical Committee on Ministry of Railways Standard Metrology Institute.

1 Scope

This Standard specifies the terms and definitions, preparing principle, structure and management of railway product identification code, product item identification code.

This Standard applies to codes required as product identification and relevant information processing, exchange and share carrier in railway product management.

NOTE: Railway product management includes production management, product access, product quality supervision and tracking, material management, operation management, asset management, material accounting, planning and statistics.

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. For dated references, subsequent amendments

(excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 10113, Definition of common terms used in classification and coding

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 10113 and the following ones apply.

3.1 Product

the result of a set of interrelated or interacting activities that convert input into output

NOTE: Common product categories include services (such as transport), software (such as computer programs, databases), hardware (such as engine mechanical parts, electronic components), process materials (such as lubricants). The product in this Standard specially refers to hardware and process materials, of which.

- 1) the hardware is usually a tangible product, the amount of which is counted;
- 2) the process materials are usually tangible products, the amount of which has a characteristic of continuity.

3.2 Product item

a group irrelevant to manufacturer, divided according to the basic attribute

NOTE: The basic attribute refers to the specifications, geometry, size, material, performance and production process characteristics for which the product can be distinguished from other products.

3.3 Product identification code

a set of numbers used to identify a particular product of manufacturer

3.4 Product item identification code

a set of numbers used to identify a particular product item of manufacturer

3.5 Railway product

an industrial product used on railway that meet the requirements for quality, safety of this product

4 Rules for identification codes of railway product, item

4.1 Principle of uniqueness

4.1.1

The same product of same enterprise shall be assigned with same product identification code. The different product of same enterprise or the same product of different enterprise shall be assigned with different product identification code.

4.1.2

The product of same name and same basic attribute shall be assigned with same product item identification code. For the product of different name or of same name, different basic attribute shall be assigned with different product item identification code.

4.2 Principle of no meaning

In addition to the preset identification, each digit in the identification code does not represent any specific information related to the product and the product item.

Annex A

(normative)

Calculation method for verification code A.1 The verification code is 1 number. The verification code is calculated by a certain mathematical algorithm based on the numerical sequence. The calculation steps are as follows.

step 1. prepare code weights from left to right, with a weight of 1 from the left odd and 3 of an even number;

step 2. multiply by left-to-right numbers and weights, sum all multiplication results;

step 3. after the sum of step 2 is divided by modulo 10, take the remainder;

step 4. If the remainder is 0, the verification code shall be 0; if the remainder is not 0, the result of subtracting the remainder obtained in step 3 from the modulo 10 shall be the verification code.

A.2 Example for calculation of verification code. see Table A.1 for calculation of verification code of code 15254400005X.

Table A.1 -- Calculation for verification code of code 15254400005X

Step Example calculation explanation

1 Number from left to right

2 Multiply by left-to-right numbers and weights; sum all multiplication results

$1+15+2+15+4+12+0+0+0+0+5=54-1$

3 Divide -1 by the modulus to take the remainder $54 \text{ (and)} / 10 \text{ (modulus)} = 5$, the

remainder is 4 (2) If the remainder is 0, the verification code shall be 0; if the remainder is not 0, the result of subtracting the remainder obtained in step 3 from the modulo 10 shall be the verification code.

Verification code $X = 10 (\text{modulus}) - 4 (\text{remainder}) = 6$ (3)

Table B.2 -- Product information

Product basic information	Product name	Product main technical indicators	Indicator name
(including product model)	Corresponding value	Implementation product technical standard	
Product additional information	Product identification information	Accreditation body	
Identification certificate number	Product certification information	Certification body	
Certificate number	Certification body	Certificate number	Product certification information
Certification body	Certificate number	National industrial production permit information	
Issuing agency	Certificate No.		

Railway industrial

product license

information

Issuing agency Certificate No.

Model approval

information Accreditation body Certificate No.

Other access

information

Access organization Access certificate Access organization Access certificate Product brief

Introduction

B.1.2 The designated agency shall, based on the information provided by the reporting enterprise, confirm and regulate according to the standard provisions.

If an enterprise named XX applies for the code of " Bar porcelain insulators used for electrified railway catenary", see Table 3 for the confirmation and regulation.

The designated agency shall assign the product identification code "153044000167" to the product for which it applies for the identification code.

Table 3 -- Information regulation example

Enterprise declaration information	Regulation information	Product name
Subway, light rail insulators	Standard product name	Bar porcelain insulators used for electrified railway catenary
Bibliography [1]	GB/T 7027-2002, Basic principles and methods for information	