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CCS S19



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

GB/T 10082-2024

Replacing GB/T 10082-2010

Rail car - Heavy-duty rail motor car

轨道车 重型轨道车

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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. This document replaces GB/T 10082-2010 "Technical Specifications for Heavy-Duty Rail Vehicles". Compared with GB/T 10082-2010, in addition to the structural adjustment In addition to editorial changes, the main technical changes are as follows:

- a) The outer rail superelevation requirements have been changed (see 4.6, 3.9 of the.2010 edition);
- b) The model compilation requirements have been changed (see 5.1, 4.1 of the.2010 edition);
- c) The installed power series of heavy-duty rail vehicles has been changed (see 5.2, Chapter 1 of the.2010 edition);
- d) The speed levels have been changed (see 5.3, 5.4 of the.2010 edition);
- e) The height of the obstacle avoider from the rail surface has been changed (see 6.13, 5.16 of the.2010 edition);
- f) The axle load requirements have been changed (see 6.21, 5.25 of the.2010 edition);
- g) The requirements for main generators have been changed [see 7.2.7.4, 7.2.7g) and 7.2.7h) of the.2010 edition];

1 Scope

GB/T 10082-2024 is the Chinese national standard on rail car - heavy-duty rail motor car, in the field of railway engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 September 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2025. Classification: ICS 45.120, CCS S19. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB 146.1 Standard gauge railway gauges Part

GB/T 1348 Ductile iron castings

GB/T 4208 Enclosure protection degree (IP code)

GB/T 11352 Carbon steel castings for general engineering

GB/T 12528 Cables for rail transit vehicles with AC rated voltage of 3 kV and below

GB/T 16904.1 Standard gauge railway rolling stock clearance inspection Part

3 Locomotive traction converters

GB/T 25123.1 Rotating electrical machines for electric traction rail vehicles and road vehicles Part

1. Electrical machines other than those supplied by electronic converters Motors other than AC motors

GB/T 25123.2 Rotating electrical machines for electric traction rail vehicles and road vehicles Part

4 Connection to electronic converters Permanent magnet synchronous motor

GB/T 25336 Inspection and test methods for large railway track maintenance machinery

GB/T 25337 General technical requirements for large railway track maintenance machinery

GB/T 32347.1-2015 Environmental conditions for rail transit equipment Part

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