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

GB/T 25343.1-2010

**Railway applications -- Welding of railway vehicles and
components -- Part 1: General**

铁路应用 轨道车辆及其零部件的焊接 第1部分：总则

(English Translation)

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Foreword

GB/T 25343 "Railway applications - welding rail vehicles and their components" is divided into five parts.

- Part 1. General;
- Part 2. Welding manufacturer's quality requirements and certification;
- Part 3. Design requirements;
- Part 4. Production requirements;
- Part 5. Inspection, testing and documentation.

This section GB/T 25343 Part 1, corresponding to EN15085-1:2007 "Railway applications rail vehicles and their components Welding - Part 1. General. " The partial modification using EN15085-1:2007, the main changes are as follows.

- Remove the EN15085-1:2007's "Preface" and "Introduction."
- To EN15085-1. International Standard (ISO) 2007 cited and European standards (EN), if the country has a corresponding national standard and all references to the corresponding national standards.
- Remove the EN15085-1:2007 in 3.7 "National security agencies nationalsafetyauthority" terms and definitions.
- Remove the EN15085-1:2007 in appendix A (informative) of.
- Adds three terms. the welding procedures, welding technology assessment reports and welding operators.

This section proposed by the People's Republic of China Ministry of Railways.

This section from south Qishuyan Locomotive Rolling Stock Technology Research Institute Co., Ltd. under the jurisdiction.

This section is drafted. CSR Qishuyan Locomotive & Rolling Stock Technology Research

Institute Co., Ltd., CSR Yangtze River Vehicles Co., Ltd., CSR Qishuyan Motorcycle Co., Ltd., CNR Changchun Railway Vehicles Co., Ltd., CSR Zhuzhou Electric Locomotive Co., Ltd., CSR Sifang Locomotive and Rolling Stock Shares Limited.

1 Scope

This series of standards for the field of rail vehicle provides assume a new creation and maintenance of welding manufacturer's qualification and quality requirements.

Thus this series of standards to the design process performance requirements, the production process to achieve high-quality welds, as well as through show satisfaction Quality together.

This link is defined by security and by load factor determining the grade of weld quality in the design process and get. Quality defects the amount of grading and grade of weld quality is linked, in order to guarantee the achievement of the desired quality level design. According grade of weld quality, provides enterprise Authentication level, welding and weld inspection level qualification.

This series of standards applies to welding rail vehicles and parts manufacturing, and maintenance of metallic materials.

GB/T 25343 in this part of the welding rail vehicles and their components gives the definition of general recommendations and related terms. In addition to co with special provisions to the provisions of this section apply to all welding methods, including manual welding GB/T 5185 defined, semi-automatic welding, Fully mechanized welding or automatic welding.

This section applies to the welding of steel and aluminum, as well as casting welding.

Note: The principle of this section is also applicable to other materials (such as copper and magnesium) welding.

This series does not involve certification standard.

This series of standards do not apply to special regulations piece of equipment such as pressure vessels.

2 Normative references

The following documents contain provisions which, through reference GB/T 25343 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 3375 Welding terminology ISO 17659 Welding - Multilingual terms for welded joints shown

3 Terms and Definitions

GB/T 3375, ISO 17659 and established the following terms and definitions apply to this section.

Manufacturer certification bodies manufacturer certification body by national authorities within the scope of this series of standards recognized and have the ability according to the GB/T 25343.2 requirements for manufacturers Authentication authority.

Authentication level certification level (CP) for welding rail vehicles or parts according to criteria classification grade of weld quality.

Authentication level is represented by "CL".

Grade of weld quality weld performance class Welded joints based on stress level and determine the level of security and performance requirements of welded joints.

Grade of weld quality with "CP" indicates.