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

GB/T 25343.3-2010

**Railway applications -- Welding of railway vehicles and
components -- Part 3: Design requirements**

铁路应用 轨道车辆及其零部件的焊接 第3部分：设计要求

(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 3, which corresponds to EN15085-3:2007 "Railway applications rail vehicles and their components Welding - Part 3. Design requirements. " The partial modification using EN15085-3:2007, the main differences are as follows.

--- Remove the EN15085-3:2007's "Preface" and "Introduction";

--- To EN15085-3. International Standard (ISO) in 2007 and the European standard references (EN), if the country has a corresponding standard, a Law cited corresponding national standards or industry standards.

Appendix F to this part of the normative appendix, Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix G, Appendix H for information only
appendix.

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 Zhuzhou Electric Locomotive Co., Ltd. CSR Yangtze vehicles, CSR Qishuyan Locomotive & Rolling Stock Technology Research Co., Ltd., CSR Qishuyan Locomotive Co., Ltd., CNR Changchun Railway Vehicles Co., Ltd., CSR Sifang Locomotive and Rolling Stock Shares Limited.

1 Scope

GB/T 25343 provisions of this part of the rail vehicle and parts manufacturing, design and maintenance of classification rules.

This section applies to weld rail vehicles and parts manufacturing and maintenance process of metallic materials.

This section is not defined parameter calculation (refer to other criteria, such as fatigue testing).

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 700 carbon structural steel (GB/T 700-2006, ISO 630:1995, NEQ) GB/T 5185-2005 Method Code welding and allied processes (ISO 4063:1998, IDT) GB/T 6417.1 metal fusion welding head defect classification and description (GB/T 6417.1-2005, ISO 6520-1:1998, IDT) GB/T 6417.2 metal head pressure welding defect classification and description (GB/T 6417.2-2005, ISO 6520-2:2001, IDT) GB/T 19804 General dimensional tolerances of welded structures and geometric tolerance (GB/T 19804-2005, ISO

13920:1996, IDT) GB/T 19869.1 steel, nickel and nickel alloy welding procedure qualification test (GB/T 19869.1-2005, ISO 15614-1:2004, IDT) Welding - Part 1 GB/T 25343.1-2010 Railway applications rail vehicles and their components. General GB/T 25343.2-2010 welding Part 2 Railway applications rail vehicles and their components. quality welding manufacturers to and certification requirements Welding Section 4 GB/T 25343.4-2010 Railway applications rail vehicles and their components. production requirements GB/T 25343.5-2010 Railway applications welding rail vehicles and their components - Part 5. Inspection, testing and documentation Notation ISO 2553 welding, brazing and soldering head on drawings ISO 5817 quality welded steel, nickel, titanium and its alloys welded joints (beam welding excluded) defect classification ISO 9692-1 Welding and allied processes recommendations for joint preparation - Part 1. steels SMAW, GMAW welding, gas welding, TIG welding and beam welding ISO 9692-2 Preparation Part 2 joint welding and allied processes. Submerged arc welding of steels Recommendation ISO 9692-3 Welding and allied processes for joint preparation - Part 3. aluminum and its alloys inert gas Welding and tungsten inert gas welding ISO 10042 Arc welding of aluminum and aluminum alloy joint quality levels for imperfections Peel and chisel peeling test ISO 10447 Resistance welding Resistance spot welding, projection welding and seam welding ISO 13919-1 electron beam welding and laser beam welded joints quality level imperfections Guide. Part 1. Steels ISO 13919-2 electron beam welding and laser beam welded joints quality levels for imperfections Guide. Part 2. Aluminium and its weldable alloys Bolt welding arc welding of metallic materials ISO 14555 ISO/T R15608 welding of metallic materials Classification System Guide Metallic materials ISO 15614-12 Specification and qualification of welding procedures Welding procedure test - Part 12. Spot, seam and projection welding