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**TB**

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

**中华人民共和国铁道行业标准**

TB/T 1979-2003

Replace TB/T 1979-1987

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**Technical specification for the procurement of  
atmospheric corrosion resisting steel for railway  
rolling stock**

**铁道车辆用耐大气腐蚀钢**

**订货技术条件**

**Issue on March 12, 2003**

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**Issued by Ministry of Railways of the People's Republic of China**

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## Foreword

This Standard replaces TB/T1979-1987 *Technical Specification for the Procurement of Atmospheric Weather Resistance Steel (Strip) for Railway Rolling Stock*. TB/T1979-1987 shall be abolished.

This standard revises the TB/T1979-1987 *Technical Specification for the Procurement of Weather Resistance Steel (Strip) for Railway Rolling Stock* based on the development and application of atmospheric corrosion resisting steel, referencing to related international and foreign standards and on the basis of *Technical Specification for the Procurement of Atmospheric Corrosion Resisting Steel for Railway Rolling Stock (Provisional)*.

Compared with the standard TB/T1979-1987, the main technical content made the following changes:

- Added the related technical requirements of profile steel;
- The chemical composition has been properly adjusted, and the provisions of rare earth elements were changed from addition to the content in the finished steel;
- Improved the requirements of the mechanical property index and added the impact property;
- Added the requirements of grain size, non-metallic inclusions and corrosion property.

This Standard is proposed by and under the jurisdiction of Metrology Institute of the Ministry of Railways.

This Standard is drafted by: Metrology Institute of Ministry of Railways, Metal and Chemical Institute of Academy of Railway Sciences.

The main drafters of this Standard are: Zhu Mei, Zhang Bin, Yang Songbo, Gao Junli, Fu Xiuqin.

This Standard was firstly issued in January, 1987 and this is the first revision.

# Technical Specification for the Procurement of Atmospheric Corrosion Resisting Steel for Railway Rolling Stock

## 1 Scope

This Standard specifies the size and shape, technical requirements, test methods, inspection rules, packaging, marking and quality certificate of the atmospheric corrosion resisting steel for railway rolling stock.

This Standard applies to the hot-rolling and cold-rolling steel plate, steel strip and profile steel for manufacturing the atmospheric corrosion resisting steel railway rolling stock.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 222-1984 Method of sampling steel for determination of chemical composition and permissible variations for product analysis

GB/T 223.3-1988 Methods for chemical analysis of iron, steel and alloy; The diantipyrylmethane phosphomolybdate gravimetric method for the determination of phosphorus content

GB/T 223.5-1997 Methods for chemical analysis of iron, steel and alloy The reduced molybdsilicate spectrophotometric method for the determination of acid-soluble silicon content

GB/T 223.11-1991 Methods for chemical analysis of iron, steel and alloy The ammonium persulfate oxidation volumetric method for the determination of chromium content

GB/T 223.14-2000 Methods for chemical analysis of iron, steel and alloy — The N-benzoyl-N-phenylhydroxylamine extraction photometric method for the determination of vanadium content

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