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Continuously Cold Rolled High Strength Steel Sheet and Strip for Automobile – Part 11: Carbon Manganese Steel

汽车用高强度冷连轧钢板及钢带 第 11 部分：碳锰钢

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Foreword

GB/T 20564 *Continuously Cold Rolled High Strength Steel Sheet and Strip* can be divided into the following 11 parts:

- Part 1: Brake Hardening Steel;
- Part 2: Dual Phase Steel;
- Part 3: High Strength Interstitial Free Steel;
- Part 4: High Strength Low Alloy Steel;
- Part 5: Isotropic Steel;
- Part 6: Transformation Induced Plasticity Steel;
- Part 7: Martensitic Steel;
- Part 8: Complex Phase Steel;
- Part 9: Quenching and Partitioning Steel;
- Part 10: Twinning Induced Plasticity Steel;
- Part 11: Carbon Manganese Steel.

This Part belongs to Part 11 of GB/T 20564.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part was proposed by China Iron and Steel Association.

This Part shall be under the jurisdiction of National Technical Committee for Standardization of Steel (SAC/TC 183).

Drafting organizations of this Part: China Metallurgical Information and Standardization Institute, and Angang Steel Co., Ltd.

Chief drafting staffs of this Part: Wang Haiquan, Liu Jun, Zhang Weixu, Su Haolu, Tang Mu, Li Qian, Shi Li, Lin Zhifeng, Jiang Guangrui, and Liu Libin.

Continuously Cold Rolled High Strength Steel Sheet and Strip for Automobile – Part 11: Carbon Manganese Steel

1 Scope

This Part of GB/T 20564 specifies the terms and definitions, classification and grade expression method, ordering content, dimension, shape, weight, technical requirements, test methods, inspection rules, package, marking and quality certificate of cold rolled carbon manganese high strength steel sheet and strip.

This Part is applicable to the steel sheet and strip with thickness of 0.50mm ~ 3.00mm for manufacturing automotive structural parts (hereinafter referred to as “steel sheet and strip”).

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 223.9 Iron, Steel and Alloy - Determination of Aluminium Content - Chrom Azurol S Photometric Method

GB/T 223.59 Iron, Steel and Alloy - Determination of Phosphorus Content - Bismuth Phosphomolybdate Blue Spectrophotometric Method and Antimony Phosphomolybdate Blue Spectrophotometric Method

GB/T 223.63 Methods for Chemical Analysis of Iron, Steel and Alloy - The Sodium(Potassium)Periodate Photometric Method for the Determination of Manganese Content

GB/T 223.68 Methods for Chemical Analysis of Iron, Steel and Alloy - The Potassium Iodate Titration Method after Combustion in the Pipe Furnace for the Determination of Sulfur Content

GB/T 223.69 Iron, Steel and Alloy - Determination of Carbon Contents - Gas-volumetric Method after Combustion in the Pipe Furnace

GB/T 228.1-2010 Metallic Materials - Tensile Testing - Part 1: Method of Test at Room Temperature

GB/T 247 General Rule of Acceptance, Package, Mark and Certification for Steel Sheet and Strip

GB/T 708 Dimension, Shape, Weight, and Tolerance for Cold-Rolled Steel Plate

GB/T 2523 Measuring Method of Surface Roughness and Peak Count for Cold-Rolled Metal Sheet (Strip)

GB/T 2975 Steel and Steel Products - Location and Preparation of Test Pieces for Mechanical Testing

GB/T 4336 Carbon and Low-Alloy Steel - Determination of Multi-Element Contents -Spark Discharge Atomic Emission Spectrometric Method (Routine Method)

GB/T 8170 Rules of Rounding off for Numerical Values & Expression and Judgement of Limiting Values

GB/T 17505 Steel and Steel Products - General Technical Delivery Requirements

GB/T 20066 Steel and Iron - Sampling and Preparation of Samples for the Determination of Chemical Composition

GB/T 20123 Steel and Iron - Determination of Total Carbon and Sulfur Content Infrared Absorption Method after Combustion in an Induction Furnace (Routine Method)

GB/T 20125 Low-Alloy Steel - Determination of Multi-Element Contents - Inductively Coupled Plasma Atomic Emission Spectrometric Method

GB/T 20126 Unalloyed Steel - Determination of Low Carbon Content - Part 2: Infrared Absorption Method after Combustion in an Induction Furnace (with Preheating)

3 Terms and Definitions

The following terms and definitions are applicable to this document.

3.1 Carbon manganese steel

On the basis of low carbon steel, take carbon, manganese, etc. as the major solid solution strengthening elements; the microstructure consists of ferrite and small amount of pearlite.

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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