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National Standard of the People's Republic of China

中华人民共和国国家标准

GB/T 5313—2010

Replace GB/T 5313—1985

Steel Plate with Through-thickness

Characteristics

厚度方向性能钢板

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of the People's Republic of China

Standardization Administration of the People's Republic of China

Foreword

This standard was drafted according to the rules specified in GB/T 1.1—2009.

This standard is a revision to “Steel Plate with Through-thickness Characteristics” by reference to “Steel Products with Improved Deformation Properties Perpendicular to the Surface of the Product” (EN 10164:20) and based on the production and application of steel plate with through-thickness characteristics.

This standard replaces “Steel Plate with Through-thickness Characteristics” GB/T 5313—1985; compared with GB/T 5313—1985, the main revisions are as follows:

- Cancelled the yield strength grade of applicable steel plate;
- Increased the maximum thickness of steel plate from 150mm to 400mm;
- Modified the requirements for the preparation and inspection of sample.

The Appendix A and Appendix B of this standard are normative.

This standard was proposed by China Iron & Steel Association.

This standard is under the jurisdiction of National Technical Committee on Iron and Steel of Standardization Administration of China (SAC/TC 183).

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The previous editions of the standards replaced by this standard are as follows:

- GB/T 5313—1985.

Steel Plate with Through-thickness Characteristics

1 Scope

This standard specifies the through-thickness characteristic grades, test methods and inspection rules of steel plates. The through-thickness characteristic grade is a measurement for the lamellar-tearing resistance of steel plates, and the through-thickness characteristics may be assessed according to the reduction of area in through-thickness tensile test.

This standard is applicable to killed steel plates with a thickness of 15~400mm.

2 Normative References

The following documents are indispensable for the application of this document. For dated normative references, only the dated editions are applicable to this document. For undated references, the latest editions of the normative documents (including all the amendments) are applicable to this document.

GB/T 228.1 “Metallic Materials—Tensile Testing—Part 1: Method of Test at Room Temperature” (GB/T 228.1—2010, ISO 6892-1:2009, MOD)

GD/T 17505 “Steel and Steel Products—General Technical Delivery Requirements”

3 Expression Method of Designation

The designation of steel plate with through-thickness characteristics which is ordered according to this standard, is composed of the original designation of products and the required through-thickness characteristic grade.

For example Q345GJDZ25

Q345GJD——The original designation in GB/T 19879;

Z25——The required through-thickness characteristic grade in this standard.

4 Technical Requirements

4.1 The sulfur content (heat analysis) of steel with different through-thickness characteristic grade shall be in accordance with those specified in Table 1.

Table 1 Sulfur Content (Heat Analysis)

Through-thickness characteristic grade	Sulfur content (mass fraction)/%
Z15	≤0.010
Z25	≤0.007
Z35	≤0.05

4.2 The through-thickness characteristic grade of steel plates and the average value of corresponding reduction of area as well as the minimum value of individual sample shall be in accordance with those specified in Table 2.



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