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The galvanized steel wire ropes for highway guardrail

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(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This revised standard adopts ASTM A741-2003 "highway guardrail with galvanized steel wire rope and fittings." this standard compared with ASTM A741-2003, do the following editorial changes.

- a) The standard name was changed to "highway guardrail with galvanized steel wire rope";
- b) delete the contents of this standard ASTM A741-2003 the connecting member;
- c) The preparation of standards in terms of structure and content standards and other provisions, and the format of the production and according to the current standard wire rope series with practice has been modified.

The standard binding security fence with wire rope production and use characteristics, as compared with ASTM A741-2003, made the following technical content Variety.

- An increase of 3 x 19 class structure;
- Tensile strength divided 1270MPa, 1370MPa, 1470MPa, 1570MPa and 1670MPa five levels;
- Specifies the lower limit of the nominal tensile strength of steel wire;
- Expanding the scope of rope diameter, wire diameter range of 16mm ~ 28mm;
- Expanding the scope of wire diameter, wire diameter ranging from 0.80mm ~ 4.00mm;
- Provisions of the wire rope and strand lay length multiples;
- Specifies the approximate weight of the rope breaking force coefficient and twisting coefficient and loss factor;
- Specifies the length of wire rope and tolerance;
- Provisions of the rope stock split test allows the number of low-value steel (tensile

strength, winding, zinc coating weight of 5% of the number of correct wire test Fixed, determined by the diameter of the wire 3% test number);

--- Galvanizing layer to adjust the level and the zinc layer weight (divided into Class B, AB grade, A-level and A-level special four levels).

The standard proposed by China Iron and Steel Association.

This standard by the National Steel Standardization Technical Committee (SAC/TC183) centralized.

This standard was drafted. divinity Nantong Steel Co., Ltd., National Metal Products Quality Supervision and Inspection Center, Tongliao rope factory in Nantong City Product Quality Supervision, Inspection, Metallurgical Industry Information Standards Institute.

1 Scope

This standard specifies the highway guardrail galvanized wire rope classification, ordering the content, materials, technical requirements, inspection, testing, inspection rules, complex Experience and judgment, packaging, marking and quality certificate.

This standard applies to highway guardrail galvanized wire rope.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 228.1 tensile testing of metallic materials - Part 1. room temperature test methods (GB/T 228.1-2010, ISO 6892-1.

2009, MOD)

GB/T 1839 quality steel products galvanizing layer test method (GB/T 1839-2008, ISO 1460-1992, MOD) General provisions GB/T 2104-2008 Wire Rope packaging, marking and quality certificate GB/T 2976 Test method for metallic materials winding wire (GB/T 2976-2004, ISO 7802. 1983, IDT) GB/T 4354 quality carbon steel hot rod GB/T 8170 repair value expressed about the rules and limit values \u200b\u200band judgment GB/T 8358 rope breaking tensile test method (GB/T 8358-2006, ISO 3108. 1974, NEQ) GB/T 8706 wire rope terminology, labeling and classification (GB/T 8706-2006, ISO 17893:2004, IDT) GB/T 21965 wire rope inspection and defect term (GB/T 21965-2008, ISO 2532. 1974, NEQ) GB/T 24242.2 silk non-alloy steel wire rod - Part 2 general purpose wire rod (GB/T 24242.2-2009, ISO 16120-2:2001, MOD) Category 3

3.1 Highway Guardrail Galvanized Steel Wire Rope classified according to their number of shares and the number of shares of the outer wire classification (Table 1). If the party does

not need to be clear when seeking some kind of rope structure, in the same group, select the structure shall be determined by the supplier.

Table 1 rope Categories

Group classification principles Typical Structure Rope shares Diameter range /mm 1 3 x 7
Round three shares of the outer wire 6, the center wire Outer layer of twisted wire. Steel and other lay length.

3 x 7 (1-6) 16 ~ 24

2 3 x 19

3 Round stock, the outer wire 12 a share, center

Wire, twisting two-layer wire.

3 x 19 (1-6/12) 16 ~ 26 3 6 x 7

6 Round shares of the outer wire 6, the center wire

Outer layer of twisted wire. Steel and other lay length.

6 x 7 WSC (1-6) 16 ~ 28