

ICS 77.140.65
CCS H 49



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

GB/T 29086-2012

Steel wire ropes -- Safety -- Use and maintenance

钢丝绳 安全 使用和维护

(English Translation)

Issued on: December 31, 2012

Implemented on: October 1, 2013

Issued by: Standardization Administration of China

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Foreword

This revised standard adopts EN12385-3:2004 A1.2008 "Wire Rope Safety - Part 3. Use and maintenance information" (English Version).

This standard EN12385-3:2004 A1.2008 main differences are.

- The standard name was changed to "rope safe use and maintenance";
- The Normative references cited in the text and convert our standard EN national standards;
- Normative references added GB/T 5976 "folder rope";
- Normative references and "5.2.4.1 rope inspection and testing" clause added to GB 16424 "to metal and nonmetal Under Mine Safety Regulations "and" Coal Mine Safety Regulations ";
- Increase the hoisting rope correct method and the example of Figure;
- Increasing the coil wire rope discharged from the wrong way and the example of Figure;
- Clear when multi-rope winding, to be applied from 1% to 2% of the minimum breaking force of the rope back tension to ensure that the rope can Enough tightly wound on the drum;
- Increased manpower untied the rope from the axle right way and the example of Figure;
- Increased untied the rope from the shaft the wrong way and the example of Figure;
- Increased cutting the rope tying ready before the example of FIG;
- Increasing the installation chapter 5.2.3.5 rope clips;
- Increasing the wire rope crown for the outer ring and the rope sheave grooves of the contact wire explanation;
- The EN12385-3 normative Annex A, Annex B, Appendix C is converted to text;

--- Added "Appendix A The rope scrapped." 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. National Metal Products Quality Supervision and Inspection Center, Guangzhou Jian Feng Textile special Hardware Manufacturing Co., Suzhou Gods set Group, Henan Province Wei Metal Products Co., Ltd., Metallurgical Industry Information Standards Institute, Guizhou Wire Rope (Group) Co., Ltd., Dongguan City Kennedy Yi Jia Metal Products Co., Ltd., Jiangsu Seif days Steel Co., Ltd. Shandong Shu Bote rope.

1 Scope

This standard specifies the use of wire rope and wire rope to maintain the kind of information should be provided by the manufacturer; or when the rope as machinery, equipment when the portion of the device or the manufacturer's manual should include the use of wire rope and maintain the kind of information.

This standard does not apply to this standard before the wire rope slings and wire rope manufacturing release.

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 5972 crane wire rope maintenance,, installation, examination and discard (GB/T 5972-2009, ISO 4309.

2004, IDT)

GB/T 5976 wire rope clips GB/T 8706 wire rope terminology, marking and classification (GB/T 8706-2006, ISO 17893:2004, IDT) GB/T 9075 cableway wire rope inspection and scrap specification GB/T 15706.1 Safety of machinery - Basic concepts, general principles for design - Part 1. Basic terminology and methods (GB/T 15706.1-2006, ISO 12100-1:2003, IDT) GB/T 15706.2 Safety of machinery - Basic concepts, general principles for design - Part 2. Technical principles (GB/T 15706.2-2006, ISO 12100-2:2003, IDT) GB 16424 underground metal and nonmetal mine safety regulations GB/T 16856.1 Safety of machinery - Risk assessment - Part 1. Principles (GB/T 16856.1-2006, ISO 14121:2007, IDT) "Coal Mine Safety Regulations" (State Administration of Work Safety Order No. 37)

3 Terms and Definitions

GB/T 8706, GB/T 15706.1 as defined in the following terms and definitions apply to this document.

Check inspection

Obvious damage and the appearance of the performance of a visual inspection of wire rope, wire rope used to identify possible impact of degradation.

A comprehensive test through examination by a competent person (trained and have practical experience in personnel) to implement visual inspection. If necessary, you can add other methods, such as measuring or electromagnetic non-destructive testing to detect damage and performance degradation that may affect the use of wire rope.

4 Major risk and requirements

Table 1 lists all the major hazard risk assessment by this standard involves the identification of hazardous situations and hazardous events, calls for effective