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

GB 24543-2009

Personal fall protection equipment -- Lanyards

坠落防护 安全绳

(English Translation)

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Foreword

This standard is 5.2 to 5.5, Chapter 8 are mandatory, others are recommended.

This modification uses the standard ISO 10333-2:2000 "individual fall arrest system - Part 2. the safety rope and a buffer" (in English). According to the present standard ISO 10333-2:2000 redrafted.

This standard and ISO 10333-2:2000 compared, the main technical differences are as follows.

- removed the buffer section;
- the ISO standards referenced in ISO 9227, read in the present standard GB/T 10125;
- the ISO standards referenced in ISO 1834, read in the present standard GB/T 20946;
- the ISO standards referenced in ISO 10333-5, read in the present standard GB/T 23469;
- This standard only for safety rope specific terms are defined, and fall protection systems in other terms not defined in this standard, In ISO 10333-2 also not defined, and therefore increase the reference standard GB/T 12903;
- deleted "total weight", "component", "subsystem", "individual fall arrest system" Terms and definitions;
- increased "job safety rope around the pole", "safety rope with regional restrictions", "safety rope suspending fall", "end eye ring" as used herein And definitions;
- added "4 classification and labeling", the safety rope around the pole by job category is divided into the job limit safety rope, safety rope fall, region Safety ropes hanging down; divided into categories by webbing material safety rope, fiber rope safety rope, wire rope

safety rope, chain Ann Full rope;

--- The general requirements of ISO standard safety rope terminal split into four parts, were added to the webbing safety rope, fiber rope safety General requirements for rope, wire rope safety rope, safety rope in the chain;

--- In the static mechanical properties of the technical requirements, increasing the test force value "job safety rope around the pole" and "safety rope with regional restrictions" in Claim;

--- Added "7 inspection rules." For ease of use, also made of this standard the following editorial changes.

--- The ISO standard format and presentation of our country into a standard format and presentation, were modified according to the Chinese habit;

--- deleted the ISO foreword;

--- prepared according to the standard case of increasing the content of references.

1 Scope

This standard specifies the classification and labeling of the safety rope, technical requirements, test methods, inspection rules and identity.

This standard applies to the art high weight and is not greater than 100kg load operations, and take a safety rope suspension used in the job.

This standard does not use the safety rope sports, firefighting and the like.

2 Normative references

Terms of the following documents become provisions of this standard by reference in this standard. For dated reference documents, all later Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to agreements based on this standard Whether the latest versions of these documents. For undated references, the latest version applies to this standard.

GB/T 10125 artificial atmosphere corrosion test Salt spray test (GB/T 10125-1997, eqv ISO 9227:1990)

GB/T 12903 The term & PPE

GB/T 20946 lifting General acceptance of short chain (GB/T 20946-2007, ISO 1834:1999, IDT)

GB/T 23469 Fall Protection connector

3 Terms and Definitions

GB/T 12903 established following terms and definitions apply to this standard.

3.1

In the seat belt is connected with the tether belt hanging point (tape, rope, etc.).

Note: The safety rope generally used in conjunction with the buffer, starting to expand or restrict the scope of activities of the wearer, mitigation of the impact energy.

3.2

Safety rope of adjustable length.

3.3

Operation lever around the seat belt safety rope equipped.

3.4

Area limiting seat belt with a safety rope.

3.5

Fall safety rope hanging seat belts equipped in.

3.6

In the end use safety rope folding, stapling, weaving, and other ring or sheath is formed.

NOTE: end rings eye or metal can be loaded directly used for hanging.

4.1 Classification

4.1.1

safety rope around the pole into the job by job type limiting safety rope, rope safety zone, suspending fall safety rope.

4.1.2

divided into categories by material safety rope safety rope webbing, rope safety fiber rope, wire rope safety rope, safety rope chain.

4.2 Mark

Marked safety rope consists job category, two classes of materials portion.

--- job type. letter W represents a working safety rope around the pole, the letter Q

represents the area limiting safety rope, the letter Z represents a fall Safety ropes hanging down;

--- material classes. letter Z represents a safety rope webbing, the letter X represents a safety rope fiber rope, wire rope letter G represents Safety rope, chain letter L stands for safety rope. Example: Wai lever operation, safety rope webbing denoted as "W-Z".

5.1.1 Ribbon safety rope

5.1.1.1

should be high toughness, high strength materials such as fiber filaments.

5.1.1.2

ribbon should be locked sideline.

5.1.1.3

ribbon end should not be left loose wire.

5.1.1.4

end of the webbing to be creased, should not use rivets, gluing, heat sealing and other processes.

5.1.1.5

Webbing should end before hot treated Liao sewing, sewing Zhetou after hot processing should not be burn.

5.1.1.6

sewing end portion of the webbing to be sheathed, and the web material can not be used to produce a chemical reaction, should be as transparent as possible.

5.1.1.7

sewing thread should be used with the same webbing material web with the line color should be clearly distinguished.

5.1.1.8

webbing connecting terminal metal member, the ring should be inside the eye at the end of the suture material or a reinforcing layer of sheathing.

5.1.1.9

rope body construction and use of the process should not be knotted.

5.1.1.10

close welding, cutting, heat source and other places, to deal with safety rope insulate protection.