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Textiles - Determination of Bursting Strength - Steel Ball Method

纺织品 顶破强力的测定 钢球法

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Foreword

The main technical contents of this standard is formulated by reference to ISO 3303:1990 "Rubber-or Plastics-coated Fabrics-Determination of Bursting Strength" and EN 12332-1:1998 "Rubber-or Plastics-coated Fabrics-Determination of Bursting Strength - Part 1: Steel Ball Method".

Appendix A and Appendix B of this standard are informative.

This standard was proposed by China National Textile and Apparel Council.

This standard shall be under the jurisdiction of the Sub-committee for foundation of Technical Committee on Textiles of Standardization Administration of China.

Drafting organizations of this standard: Standardization Institute of Textile Industry and China National Textiles Quality Supervision Testing Center.

Chief drafting staffs of this standard: Zheng Yuying, Wang Ying and Hong Yan.

Textiles - Determination of Bursting Strength – Steel Ball Method

1 Scope

This standard specifies the methods for the determination of the bursting strength of textile by polished steel balls, including the test piece bursting strength tests in two states of conditioning in standard atmosphere for test and soaked in the water.

This standard is applicable to various textiles.

2 Normative References

The following normative documents contain the provisions which, through reference in this standard, constitute the provisions of this standard. For dated reference, the subsequent amendments or revisions of these publications do not apply. However, all parties who reach an agreement according to this standard are encouraged to study whether the latest editions of these documents are applicable. For undated references, the latest edition of the normative document referred to applies.

GB 6529 Standard Atmospheres for Textiles Conditioning and Testing

GB/T 6682 Water for Analytical Laboratory Use - Specification and Test Methods (GB/T 6682-1992, neq ISO 3696:1987)

3 Terms and Definitions

The following terms and definitions are applicable to this standard.

3.1

Bursting strength (strength at burst)

It refers to the measured maximum force in the process when the polished steel balls is pressed against the test piece in the direction vertical to test piece plane until the test piece is damaged.

3.2

Constant rate of extension testing machine

9.2 Calculate coefficient of variation CV of bursting strength, if required, to the nearest 0.1%.

10 Test Report

The test report shall cover the following contents:

- a) Reference to this standard;
- b) A simple designation of the tested materials;
- c) Dimension of clamp and polished steel ball;
- d) Test piece number and the give-up test number;
- e) Test piece state (conditioning or humid);
- f) Mean bursting strength;
- g) Bursting strength variation coefficient CV (if required);
- h) Details of any deviation from the standard test procedure.

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