

ICS 61.060
CCS Y 78



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

GB/T 3903.21-2008

**Footwear -- Test methods for accessories: Touch and close
fasteners -- Shear strength before and after repeated closing
(English Translation)**

Issued on: June 18, 2008

Implemented on: May 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

Table of Contents

Foreword...	3
1 Scope...	4
2 Normative references...	4
3 Terms and definitions...	4
4 Principle...	5
5 Apparatus...	5
6 Test specimens...	9
7 Conditioning of specimens...	9
8 Test methods...	10
9 Calculation and expression of results...	12
10 Test report...	13

Foreword

This Part of GB/T 3903 identically adopts the International Standard ISO 22777.2004 "Footwear - Test methods for accessories. Touch and close fasteners - Shear strength before and after repeated closing" (English version), and shares the same technical content, only the following editorial modifications are made.

- a) "this European Standard" is modified into "this Part";
- b) USE the decimal point "." to replace the comma "," used as decimal point;
- c) DELETE the foreword of the International Standard;
- d) DELETE the table of content of the International Standard;
- e) for the EU standards referenced in ISO 22776.2004, this Part directly reference the corresponding national standards;
- f) DELETE the annex A of the International Standard.

This Part was proposed by China Light Industry Council.

This Part shall be under the jurisdiction of National Technical Committee on Footwear of Standardization Administration of China.

Drafting organizations of this Part. Putian Entry-Exit Inspection and Quarantine Bureau

of the People's Republic of China, China Leather and Footwear Industry Research Institute.

Main drafters of this Part. Tang Zhenhua, Chen Qinjian, Ke Jiayi, Linwei, Zhang Weijuan, Tian Wang and Chen Zhaoyu.

Footwear - Test methods for accessories. Touch and close fasteners - Shear strength before and after repeated closing

1 Scope

This Part of GB/T 3903 specifies a test method for determining the longitudinal shear strength of touch and close fasteners before and after repeated use.

This Part is applicable to all kinds of touch and close fasteners of footwear.

2 Normative references

The provisions in following documents become the provisions of this Part through reference in this Part of GB/T 3903. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Part, however, parties who reach an agreement based on this Part are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 16825.1-2002 Metallic materials - Verification of static uniaxial testing machines - Part 1. Tension/compression testing machines - Verification and calibration of the force-measuring system (ISO 7500-1:1999, IDT)

GB/T 22049 Footwear - Standard atmospheres for conditioning and testing of footwear and components for footwear (GB/T 22049-2008, ISO 18454:2001, IDT)

EN 12240 Touch and close fasteners - Determination of the overall and effective widths of tapes and the effective width of a closure

3 Terms and definitions

For the purposes of this Part of GB/T 3903, the following terms and definitions apply.

3.1

longitudinal shear strength

Maximum force per unit effective area required to separate the two tapes forming the

.....