

ICS 59.120
CCS W 98

FZ

**TEXTILE INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

FZ/T 98001-2009

Replacing FZ/T 98001-1991

**Evenness tester of capacitance method
(English Translation)**

Issued on: January 20, 2010

Implemented on: June 1, 2010

**Issued by: Ministry of Industry and Information Technology of the
People's Republic of China**

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

Foreword

This standard according to GB/T 3292.1-2008 "textile yarn evenness test methods - Part 1. Capacitive Law" device Requirements developed.

Instead of the standard FZ/T 98001-1991 "capacitive evenness tester." Compared with the standard FZ/T 98001-1991 The main changes are as follows.

- Delete references. GB/T 3291, GB/T 6388, GB/T 6587.7, GB/T 6833.1 ~ 6833.10, SJ1889;
- Adds references. GB/T 17626.2, GB/T 17626.4, GB/T 17626.11, FZ/T 90054, FZ/T 90074, FZ/T 90089.1, FZ/T 90089.2, FZ/T 91006;
- According to the provisions of GB/T 1.1-2000, and dated references to be modified;
- An increase of 3.1 "coefficient of variation", 3.5 "variation - the length of the curve", 3.6 "line density histogram", 3.7 "statistical analysis";
- Reducing the original 3.4 "detail", 3.5 "nubs", 3.6 "Cotton Day", 3.7 "defect sensitivity", 3.8 "inhibition assay", 3.9 "clip Duration Test", 3.10 "drift rate", 3.11 "Average factor";
- 4.2.1 Measurement field length of short fiber roving original 8mm to 8mm or 12mm;
- 4.2.4 adds "measuring time" and 4.2.5 "coefficient of variation and the fragment length range";
- Change the provisions on requirements 5.2 appearance;
- 5.4.1 roller speed increased error rate profile;
- 5.4.5 "detector linearity error" and 6.5.5 "Linear detector" test method to write text, delete the original Appendix C;
- Delete the original 5.5.5 Detector field unevenness workspace requirements of G;
- Improving the deviation and coefficient of variation of poor indicators 5.4.6 Vp of C, C Vp deviation from ± 0.30 to 32.32 ± 0.15 ;

- Changed in 5.4.8 fragment length, C Vp values and tolerance;
- Increased in number 5.4.9 defect classification;
- Delete the original 5.10 "timing accuracy";
- 6.6 Electromagnetic compatibility test reference standard to GB/T 17626.2, GB/T 17626.4 and GB/T 17626.11, original GB/T 6833 abolished;
- Delete the original 5.18 "reliability test" test standard SJ1889 be abolished;
- Change Chapter 6 Test methods and requirements corresponding;
- Delete the original Appendix B "routine tests to determine the rules" will need to write the contents of the text;
- 8.1 modified "flag", 8.2 "packaging", 8.3 "Transport";
- Remove Appendix A "weight Comparative Law" original.

The standard proposed by China Textile Industry Association.

This standard by the National Standardization Technical Committee Textile machinery and accessories.

This standard was drafted. Taicang Hongda Fangyuan Electric Co., Ltd., Shaanxi Changling Textile Electrical and Mechanical Technology Co., Ltd., Suzhou Changfeng textile machines Technology Co., Ltd., Laizhou City Electronic Instrument Co., Ltd., Jiangsu St. Blue Technology Co., Changzhou Second Textile Machinery Co., Ltd.

1 Scope

This standard specifies the capacitive evenness tester (hereinafter referred to as evenness tester) product specifications, technical requirements, test methods, inspection rules and signs, packaging, transportation and storage requirements.

This standard applies to the measurement sliver linear density unevenness general evenness tester capacitive detection.

This standard specifies the products are suitable for measuring cotton textile industry, blended wool, linen, silk, chemical fiber and pure short fiber spinning strip, raw silk, chemical fiber Victoria and other filament linear density unevenness and uneven structures and features.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to

the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191 Packaging - Pictorial signs GB 4793.1-2007 measurement, control and laboratory safety requirements for electrical equipment - Part 1. General requirements GB/T 6587.1-1986 master environmental testing electronic measuring instruments GB/T 6587.2-1986 electronic measuring instruments Temperature Test GB/T 6587.3-1986 electronic measuring instruments humidity test GB/T 6587.4-1986 electronic measuring instrument vibration test GB/T 6587.5-1986 electronic measuring instruments impact test GB/T 6587.6-1986 electronic measuring instruments test transport GB/T 6587.8-1986 electronic measuring instruments and power frequency voltage test GB/T 17626.2-2006 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test GB/T 17626.4-2008 Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient burst immunity test GB/T 17626.11-2008 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test FZ/T 90054 Textile machinery instrumentation products packaging FZ/T 90074 textile machinery products Painting FZ/T 90089.1 textile machinery nameplate types, sizes and technical requirements FZ/T 90089.2 textile machinery nameplate content FZ/T 91006 Textile machinery plating and chemical treatment

3 Terms and Definitions

The following terms and definitions apply to this standard.

Yarn or sliver index represents the relative degree of variation in linear density [according to formula (1) Calculation].

$C V_p = \sigma \times 100\%$ (1) where.

$C V_p$ --- yarn or sliver linear density coefficient of variation;