

ICS 59.120
CCS W 98

FZ

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

FZ/T 98004-2008

Textile fiber linear density meter vibrating method

激振式纤维线密度仪 清晰版

(English Translation)

Issued on: March 12, 2008

Implemented on: September 1, 2008

**Issued by: National Development and Reform Commission of the
People's Republic of China**

Table of Contents

Foreword
1 Scope
2 Normative references
3 Requirements
3.1 Working conditions
3.2 Appearance
3.3 Basic Functions

Foreword

The reference standard ISO 1973:1995 "Determination of linear density of textile fiber weighing method and vibration meter method" and GB/T 16256-1996 "Textile fiber linear density test method vibrometer law" test the principles and methods developed. Determine the content of the following points.

- Tension clamp weight error;
 - Resonance frequency error;
 - Fiber test effective length (vibrating wire length) error;
 - The three basic functions of computing;
 - Working conditions of ambient temperature and relative humidity test fiber;
 - A standard sample in the instrument calibration and correction method test results
- Appendix.

Appendix A of this standard is an informative annex.

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., Materials Engineering, University of Suzhou, Wuxi, People's Republic of China and out Habitat Inspection and Quarantine, the State Quality Supervision and Inspection Center of silk.

1 Scope

This standard specifies the exciting type of fiber line densitometer requirements, test methods, inspection rules and signs, packaging, transportation and storage.

This standard applies to the way the fibers with exciting start-up, measuring the resonant frequency of the excitation fiber type fiber line densitometer photoelectric detection system.

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 191-2000 Packaging - Pictorial signs GB 4793.1-1995 measurement, control and laboratory use - Safety requirements for electrical equipment - Part 1. General requirements 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 8170 numerical rounding rules GB/T 17626.2-1998 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test GB/T 17626.4-1998 Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient burst 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

3.1 Working conditions

3.1.1

Power supply voltage. (220 ± 22) Va. c. , (50 ± 1) Hz.

3.1.2

ambient temperature and relative humidity.

--- Instrument conditions. ambient temperature of $10\text{ }^{\circ}\text{C} \sim 30\text{ }^{\circ}\text{C}$, the temperature fluctuation is less than $2\text{ }^{\circ}\text{C/h}$; relative humidity of 60% to 85%.

--- Fiber Test conditions. Standard conditioning and testing atmosphere shall comply with the provisions of GB 6529, a temperature of $(20 \pm 2)\text{ }^{\circ}\text{C}$, relative humidity it was $(65 \pm 3)\%$.

3.1.3

ambient air does not contain non-ferrous metals and alloys from corrosion media, no electromagnetic interference.

3.1.4

The instrument should be no shock, no vibration level placed on a solid foundation.

3.2 Appearance

Instruments and parts exterior paint, plating, black should comply with FZ/T 90074 and FZ/T 91006 requirements.

3.3 Basic Functions

3.3.1

Instrument Testing single fiber linear density value, and a variety of fiber test results corrected calibration, calculation and calibration method