

Translated English of Chinese Standard: GB/T6508-2015

www.ChineseStandard.net

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 59.060.20

W 50

GB/T 6508-2015

Replacing GB/T 6508-2001

Test Method for Dyeing Uniformity of Polyester Filament Yarns

涤纶长丝染色均匀度试验方法

GB/T 6508-2015 How to BUY & immediately GET a full-copy of this standard?

1. www.ChineseStandard.net;
2. Search --> Add to Cart --> Checkout (3-steps);
3. No action is required - Full-copy of this standard will be automatically & immediately delivered to your EMAIL address in 0~25 minutes.
4. Support: Sales@ChineseStandard.net. Wayne, Sales manager

Issued on: September 11, 2015

Implemented on: April 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and Quarantine;
Standardization Administration of PRC.**

Table of Contents

Foreword.....	3
1 Scope	4
2 Normative References.....	4
3 Terms and Definitions.....	5
4 Principle	5
5 Reagents and Materials	5
6 Apparatus.....	6
7 Test Procedures	6
8 Test Report.....	10

Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard replaced GB/T 6508-2001 Test Method for Dyeing Uniformity of Polyester Filament Yarns. The major differences between this Standard and GB/T 6508-2001 are as follows:

- Cancel Method B Instrument Method (see Chapter 1 of this Edition; Chapter 1 of 2001 Edition);
- Single feed yarn circular hosiery machine is changed into: test knitting machine; all “hosiery machine” in the corresponding standards is changed into “test knitting machine” (see 6.1 of this Edition; 4.1.4.1 of 2001 Edition);
- Modify the scouring conditions; adopt 5g/L neutral soap powder (soap tablets), 1:25 above bath ratio, 85°C temperature, and scouring for 30min (see 7.3.1 of this Edition; 4.1.6.2 of 2001 Edition);
- Dye concentration is changed into: disperse blue 2BLN recommended concentration of 1%~2% (for fabric mass) (see 7.4.1 of this Edition; 4.1.6.3 of 2001 Edition);
- Modify the dyeing bath ratio into: bath ratio 1:20 ~ 1:60 (for fabric mass), determine according to the relevant dyeing machine requirements (see 7.4.1 of this Edition; 4.1.6.3 of 2001 Edition);
- Dyeing soaking time is changed into: adopt 60min when arbitrating (see 7.4.1 of this Edition; 4.1.6.3 of 2001 Edition).

This Standard was proposed and under the jurisdiction of China National Textile and Apparel Council.

Drafting organizations of this Standard: Shanghai Textile Industry Institute of Technical Supervision, Taicang Zhenhui Chemical Fiber Co., Ltd., Jiangsu Zhonglu Technology Development Co., Ltd., Tongkun Group Co., Ltd., Jiangsu China and Asia Chemical Fiber Co., Ltd., Rongsheng Petrochemical Co., Ltd., Haiyan Haili Green Fiber Co., Ltd., and Sinopec Yizheng Chemical Fiber Company Limited.

Chief drafting staffs of this Standard: Li Hongjie, Yang Yan, Li Zhongjun, Chen Jieqiu, Sun Yanlin, Wang Jinxiang, Yu Chuankuan, Chen Hao, and He Rong.

The historical editions replaced by this Standard are as follows:

- GB/T 6508-1986, GB/T 6508-2001.

Test Method for Dyeing Uniformity of Polyester Filament Yarns

1 Scope

This Standard specifies the test method for dyeing uniformity of polyester filament yarns – hosiery dyeing method.

This Standard is applicable to draw texturing yarn and drawn yarn. Other types of filaments can be used for reference.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 250 Textiles - Tests for Colour Fastness - Grey Scale for Assessing Change in Colour

GB/T 3291.1 Textiles - Terms of Textile Material Properties and Test - Part 1: Fiber and Yarn

GB/T 3291.3 Textiles - Terms of Textile Material Properties and Test--Part 3: General

GB/T 4146.1 Textiles - Man-Made Fibers - Part 1: Generic Names

GB/T 4146.3 Textiles - Man-Made Fibers - Part 3: Terms of Inspection

GB/T 6502 Sampling Method of Man-Made Filament Yarns

GB/T 14343 Testing Method for Linear Density of Man-Made Filament Yarns

FZ/T 01047 Standard Light Sources and Conditions for Visual Assessment of Textile Colour Fastness

--- Temperature: 85°C;

--- Time: 30min.

7.3.2 Scouring procedures

The scouring can be carried out directly in the dyeing machine; can also be carried out in other equipment with mixing device and can reach the scouring temperature. Operate according to the following procedures:

- According to the garter quality, weigh neutral soap powder (soap tablet) (accurate to 1%) as per the provisions of 7.3.1; use 60°C small amount of water to dissolve into soap liquid;
- According to the scouring equipment requirements, determine the bath ratio; pour water, soap liquid into scouring equipment, and prepare the scouring liquid bath; after thoroughly mixing, place into the garter; after raise temperature to 85°C, preserve heat for 30min;
- Discharge waste liquid, take out garter; use about 85°C soft water to wash till it becomes neutral; dewater, and waiting for dyeing.

7.4 Dyeing

7.4.1 Dyeing conditions

The dyeing conditions are as follows:

- Dyeing stuff: disperse blue 2BLN recommended concentration is 1%~2% (for fabric mass); determine the amount of adding according to the color absorption of the product;
- Bath ratio: 1:20 – 1:60 (for fabric mass); determine according to relevant requirements of dyeing machine;
- Dyeing temperature: boiling dyeing (the boiling point temperature is different as the atmospheric pressure is changed in different regions) or determine according to relevant requirements of dyeing machine;
- Buffering agent: acetic acid – sodium acetate buffering solution, pH=5, add 1mL per liter of dye bath.
- Soaking time: when arbitrating, adopt 60min; or determine according to relevant requirements of dyeing machine.

7.4.2 Dyeing procedures

Operate as per the following procedures:

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----