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

GB 18401-2010

Replacing GB 18401-2003

National general safety technical code for textile products

国家纺织产品基本安全技术规范

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Foreword

All contents of this Standard are mandatory.

This Standard replaces GB 18401-2003 National General Safety Technical Code for Textile Products. The main technical differences between this Standard and GB 18401-2003 are as follows.

- "Home use" has been added to the scope of application, and "Use" and "Except when otherwise agreed by both demand and supply parties" have been deleted;
- Quoted standard of GB/T 23344 has been added to Chapter 2;
- Infant age has been altered from 24 months to 36 months;
- Product 4.1 categorization from A, B and C coding has been changed to a verbal
- The pH value in category B of Table 1 has been changed from 4.0~7.5 to 4.0~8.5;
- Products in Footnotes a and b of Table 1 have been confirmed to be "non-end
- Footnote c of Table 1 has been updated, with the limit value for decomposable

carcinogenic arylamine set to $\leq 20\text{mg/kg}$;

- Note 5.2 has been updated to include "regulations governing exemption from testing for colorfastness to perspiration for hanging products such as curtains";
- Note 5.3 has been updated to include "product categorization by piece", and the 80 cm measurement in the Note has been changed to 100 cm;
- The examination limit set in 6.8 has been deleted;

1 Scope

This Standard specifies the general safety technical requirements for textile products, test methods, testing, implementation and supervision principles. Other requirements for textile products shall be implemented according to the relevant standards.

This Standard is applicable to the manufacture and sale of garment, decorations and household textile products. Products for export shall be implemented according to the clauses in the respective agreements.

Note: Products listed in Appendix A do not fall under the categories of this Standard, unless otherwise

indicated by the government.

2 Normative Reference

The following normative documents contain provisions which, through reference in this text, constitute provisions of this Standard. For dated reference, subsequent amendments to, or revisions of, any of these publications do not apply. However, the parties who reach an agreement based on this Standard are encouraged to investigate the possibility of applying the latest editions of the standards indicated below. For undated references, the latest edition of the normative document referred

GB/T 2912.1 Textile formaldehyde determination. Part I. free formaldehyde and hydrolyzed formaldehyde (hydro-extraction method) (GB/T 2912.1-2009, ISO 14184.1.1998, MOD)

GB/T 3920 Textile colorfastness test. Color rub-fastness test (GB/T 3920-2008, ISO 105-X12.2001, MOD)

GB/T 3922 Textile colorfastness to perspiration test method (GB/T 3922-1995, eqv ISO 105-E04.1994)

GB/T 5713 Textile colorfastness test. Colorfastness to water resistance test (GB/T 5713-1997, eqv ISO 105-E01.1994)

GB/T 7573 Textile determination of pH value of hydro-extraction liquid (GB/T 7573-2009, ISO 3071.2005, MOD)

GB/T 17592 Textile determination of forbidden azo dyes.

3 Terms and definitions

The following terms and definitions are applicable to this Standard.

The products of which the main materials comprise of natural and chemical fibers; that are processed by using procedures such as reeling, knitting, and dyeing, combined with stitching and compounding processes. Examples include yarn, textile and their harmful to human health.

3.2 General safety specification

The fundamental specification that is required to ensure that fabric products are not

3.3 Textile products for infants

The textile products that are worn or used by infants at/below 36 months of age.

3.5 Textile products without direct contact to skin

The textile products with little or no area in direct contact with human skin when worn

4 Product categorization

4.1 Products are sorted by end use into three categories.

4.2 Products that can only be used after further processing by the customer (such as cover materials, yarn) shall be categorized in accordance with their end use.

5 Requirements

5.1 General technical safety specifications for textile products are sorted into three categories. A, B and C categories - see Table 1.a

5.2 Textile products for infants shall comply with requirements in category A; products in direct contact with skin shall comply with requirements in category B; products not in direct contact with skin shall at least comply with requirements in category C; in which, testing for colorfastness to perspiration of hanging and decorative products such as curtains is not required.

5.3 Textile products for infants shall be labelled with 'products for infants'. Other products must be labelled with explanations to which the general safety technical specifications (such as category A, B or C) they comply with. Products shall be labelled to a single category in accordance to their component parts.

6 Test method

6.1 Determination of formaldehyde shall be performed in conformance with GB/T 2912.1.

6.2 Determination of pH value shall be performed in conformance with GB/T 7573.

6.3 Determination of water resistance shall be performed in conformance with GB/T 5713.

6.4 Determination of colorfastness to acid/alkali perspiration shall be performed in conformance with GB/T 3922.

6.5 Determination of colorfastness to coulomb friction shall be performed in conformance with GB/T 3920.

6.6 Determination of colorfastness to saliva shall be performed in conformance with GB/T 18886.

6.7 Peculiar odor is determined through the olfaction method, to be performed by professionals with proper training and assessment.

6.8 Determination of decomposable carcinogenic arylamine dye shall be performed in conformance with GB/T 17592 and GB/T 23344.

7 Inspection rules

7.1 Representative samples shall be randomly selected from every batch of products by category and color. One sample is then selected for each different color within

7.2 Individual goods shall be sampled at a minimum distance of 2 m away from one end, and the sample shall be a whole piece with a length no less than 0.5 m; sampling