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

FZ/T 01040-2014

Replacing FZ/T 01040-1995

Textiles. Twist factor related to the Tex System

纺织品 特克斯 (tex)制捻系数 清晰版

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Instead of the standard FZ/T 01040-1995 "Tex system twist factor." Compared with the FZ/T 01040-1995 major changes are as follows.

- Standard name was changed to "textile Turks (Tex) manufactured twist factor";
- Chapter 2 original standard references adjusted by reference, successively postponed later chapters;
- Increasing the twist, twist of terms and definitions, revised the definition of twist factor (see Chapter 2, Chapter 3 of the 1995 edition);
- Remove the twist factor and the related calculation formula α_{pk} represented (see Chapter 3, Chapter 4, 1995 edition);
- Remove the conversion formula and α_{pk} associated (see Chapter 4, Chapter 5, 1995 edition);
- Fixed conversion coefficient table section will α_{pham} 'corrected to α_{pham} , remove the related α_{pk} conversion factor (see Chapter 5, 1995 Chapter 6 edition);
- Note 2 in Table 1 metric twist unit "twist/10cm" was changed to "twist/m", delete the Note 3.

This standard uses the redrafted law revision using ISO/T R8091. 1983 "Textiles Tex system twist multiplier" (in English). The standard the main difference between quasi-ISO/T R8091 as follows.

- The reference international standard adjustment of the corresponding standards, and added GB/T 3291.1;
- Chapter 2 adds the twist, twist the definition;
- Chapter 5 in terms of the relationship between an increase in note 1, "of the results of rounding conversion factor Description" and Note 2 of the "Metric and inch twist factor the formula ";

--- Remove the original international standard Chapter 7 twist multiplier unit conversion table and Chapter 8 twist factor conversion table.

The standard proposed by China Textile Industry Association.

The standard basis by the National Textile Standards Technical Committee of Standardization Technical Committee (SAC/TC209/SC1) centralized.

This standard was drafted. Textile Standard (Beijing) Co., Inspection and Certification Center.

1 Scope

This standard specifies the calculation formula and Tex system twist multiplier related to SI units, and other units common Conversion relation and conversion factors twist factor twist factor and SI units system units represented.

This standard applies to all kinds of twisted staple yarn, filament yarn, strands and cables.

2 Terms and definitions

The following terms and definitions apply to this document.

Twist turn

Yarn about its axis of rotation is a 360° twist.

[GB/T 3291.1-1997, the definition 2.39] 2.2 Twist twist the number of yarn twist in a predetermined length in front of the untwisting. Usually per meter twist count or the number of twists per centimeter represented.

[GB/T 3291.1-1997, the definition 2.40] 2.3 Twist factor Fiber or filament yarn metric helical orientation, which reflects the perspective of the same fiber yarn axis on the surface of the yarn by yarn linear density Degree twist and two indicators obtained.

3 to Tex system twist multiplier expressed the formula twist factor see formula (1) and (2).

$\alpha =$

$100 T_t$

Or T

$\alpha_{\text{pham}} =$

$100 10T_t$

Or T

Where.

α --- Tex system twist coefficient expressed;

α_m --- twist multiplier expressed in metric;

T --- twist, twist per unit of m (twists/m);

T_t --- line density in tex (tex).

4 α , the relationship between α_m Relationship α , α_m between Eq. (3) or (4).