AS 1506, Part 2—1979
UDC 677.017.272.2

Australian Standard 1506, Part 2—1979

PREFERRED LINEAR DENSITY OF YARN IN TEX UNITS

Part 2—WORSTED YARN COUNTS FOR WEAVING AND KNITTING

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

THE FOLLOWING INDUSTRIAL, SCIENTIFIC AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Knitting Industries Council

Carpet Manufacturers Federation of Australia

Cordage Institute of Australia

Department of Defence

Textile Council of Australia

University of New South Wales

Wool Textile Manufacturers of Australia

This standard, prepared by Committee TX/17, Introduction and Rationalization of Yarn Counts (Tex) in Australia, was approved by the Textile Standards Board on behalf of the Council of the Standards Association of Australia on 22 May 1979, and was published on 1 November 1979.

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April 1980

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CORRIGENDUM
to
AS 1506, Part 2—1979
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SUMMARY: This correction slip applies to Note on page 4.

Published on 1 May 1980.

Page 4. Note.

Delete second line and *substitute:*

Similar components 34 tex × 2: R69.3 tex'.

AUSTRALIAN STANDARD

PREFERRED LINEAR DENSITY OF YARN IN TEX UNITS

Part 2

WORSTED YARN COUNTS FOR WEAVING AND KNITTING

AS 1506, Part 2—1979

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PREFACE

This standard was prepared by the Association's Committee on Introduction and Rationalization of Yarn Counts (Tex) in Australia. It forms the second part of a series of rationalized yarn counts for the Australian textile industry.

Part 1 of this standard provides a list of preferred linear densities in units of tex for cotton yarn. Other Parts may be added as preferred lists are developed.

An investigation of linear densities* used in the Australian worsted industries in conjunction with the Wool Textile Manufacturers of Australia has shown a close approximation of the yarn counts used to the R40/2 Series of Renard Numbers when expressed in tex. It was also discovered that in a number of cases the one yarn count in tex could embrace a number of counts in the traditional system, thus bringing about a reduction of the counts used.

Representatives on the committee concerned have since successfully carried out investigations into, and subsequently put into practice, the manufacture of yarns in the proposed preferred series of counts. They have found that such practice is to their advantage, resulting in economies in production and reduction in inventory levels. It should be noted that this recognition of the advantages of preferred densities in no way precludes the right of users to negotiate the supply of yarn in non-preferred counts for special end-uses.

The following Australian and international standards have relevance to the subject matter of this standard:

AS 1010	Method for the Determination of Linear Density of Textile Yarn from Packages
AS 1128	Preferred Metric Units for Textiles
AS L45	Universal Yarn Count System (Tex System)
SAA MP19	Report on Preferred Numbers and Their Use
ISO R1139	Designation of Yarns
ISO 2947	Integrated Conversion Table for Replacing Traditional Yarn Numbers for Rounded Values in the Tex System

*The terms 'linear density', 'yarn count', 'yarn number' and 'yarn titre' are synonymous.

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
PREFERRED LINEAR DENSITY OF YARN IN TEX UNITS

PART 2—WORSTED YARN COUNTS FOR WEAVING AND KNITTING

1 SCOPE. This standard sets out the preferred linear densities in tex for single yarn counts in the worsted systems for weaving and knitting. The counts may also be used for yarn of fibre blends produced on the worsted system. The counts set out in the standard are not applicable to carpet yarn. The series has been based, where possible, on a Renard rational system of numbers.

2 REFERENCES. This standard requires reference to the following Australian and international standards:

AS 1000	The International System of Units (SI) and Its Application
AS 1505	Designation of Yarns
ISO R1144	Universal System for Designating Linear Density (Tex System)

3 DEFINITIONS. For the purpose of this standard, the following definitions apply:

Yarn—an assembly of fibres and/or filament(s), of substantial length and relatively small cross-section.

Linear density—the mass per unit length of yarn.

Tex—the unit of linear density expressed in 10^{-6} kg/m.

NOTE: The unit of tex is defined in AS 1000 as 10^{-6} kg/m, and in ISO 1144 as the mass in grams of 1 km of yarn. ~~The numerical expressions are identical~~. Comp.

4 PREFERRED YARN NUMBERS. The preferred linear density of yarn spun to the worsted system is set out in Table 1.

5 CONVERSION FACTORS. Factors for converting other systems of expressing linear density in tex are set out in Table 2