

Australian Standard

**PREFERRED LINEAR DENSITY OF
YARN IN TEX UNITS**

Part 1—COTTON

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
Cotton and Allied Textile Manufacturers Association of Australia
Cotton and Manmade Fibres Federation
Department of Defence
Knitted Fabrics Manufacturers Association of Australia
University of New South Wales
Wool Textile Manufacturers of Australia

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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 first of a series of standards for rationalized yarn counts for the Australian textile industry.

An investigation was carried out by a number of cotton spinning, knitting and weaving companies to determine whether the existing wide range of cotton yarn linear densities* commercially available could be reduced, without technical or economic detriment to either the consumer or the manufacturer. As a first step, several possible lists of linear densities were generated in accordance with the Renard series of preferred numbers.† Inspection made it obvious that the list based upon the R40/3 series, although apparently restrictive, included many of the linear densities commonly in use. Knitting and weaving tests were then carried out to determine whether fabrics manufactured from linear densities not included in the list could be acceptably modified to utilize linear densities included in the list. With one or two exceptions this was found to be completely feasible, as was to be expected since the Renard series of preferred numbers is designed to provide completely logical, uninterrupted coverage.

In view of the results achieved in this admittedly limited investigation, it is the committee's belief that manufacturers will achieve worthwhile economies in production, and reduction in inventory levels, by restricting their production and use of cotton yarns as far as possible to linear densities within the preferred list. Indeed, several of the companies which participated in the investigation now manufacture almost exclusively within the series. General acceptance of the series however in no way precludes the right of users to negotiate the supply of yarns in non-preferred linear densities for specific end uses.

Other parts of this standard in the course of preparation include:

Part 2—Woollen and Worsted Yarn

Part 3—Synthetic and Manmade Yarn

Further parts may be added as preferred lists are developed.

The following standards and reports were considered in the preparation of the standard:

AS L45	Universal Yarn Count System (Tex System)
AS 1000	The International System of Units (SI) and Its Application
AS 1010	Determination of Linear Density of Textile Yarn from Packages
AS 1128	Preferred Metric Units for Textiles
SAA MP19	Report on Preferred Numbers and their Use

* *Linear density*—the terms 'yarn count', 'yarn number' and 'yarn titre' are synonymous.

† Refer to SAA MP19, Report on Preferred Numbers and Their Use.

ISO 1139	Textiles — Designation of Yarns
ISO 1144	Textiles — Universal System for Designating Linear Density (Tex System)
ISO 2947	Textiles — Intergrated Conversion Table for Replacing Traditional Yarn Numbers by Rounded Values in the Tex System

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