
INTERNATIONAL STANDARD



2947

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**Textiles — Integrated conversion table for replacing
traditional yarn numbers by rounded values in the
Tex System**

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2947 was drawn up by Technical Committee ISO/TC 38, *Textiles*, and circulated to the Member Bodies in August 1972.

It has been approved by the Member Bodies of the following countries :

Australia	India	Spain
Austria	Ireland	Sweden
Belgium	Israel	Switzerland
Canada	Japan	Thailand
Czechoslovakia	Mexico	Turkey
Denmark	Netherlands	United Kingdom
Egypt, Arab Rep. of	New Zealand	U.S.A.
France	Portugal	U.S.S.R.
Germany	Romania	
Hungary	South Africa, Rep. of	

No Member Body expressed disapproval of the document.

Textiles – Integrated conversion table for replacing traditional yarn numbers by rounded values in the Tex System

0 INTRODUCTION

To facilitate the implementation of the Tex System the conversion table which is the subject of this International Standard has been developed with the collaboration of experts from the following international organizations :

- Association Européenne de Moulinage
- Association of European Jute Industries
- Comité International de la Rayonne et des Fibres Synthétiques (CIRFS)
- Eurocoton
- Fédération Internationale de la Filterie
- International Association of Users of Man-made Fibres (AIUFFAS)
- International Bureau for the Standardization of Man-made Fibres (BISFA)
- International Federation of Cotton and Allied Textile Industries (IFCATI)
- International Wool Textile Organization (IWTO)
- Secrétariat International des Industries de la Maille

In compiling this conversion table, the principle has been to choose rounded values in the Tex System each of which would accommodate as many yarn counts as possible from the traditional systems without encroaching on spinners' tolerances. While in many cases rounding has been determined by purely numerical considerations, account has been taken of existing international practices or agreements. For example, where specific English cotton

counts are related to metric counts, this is reflected in the rounded tex value. The rounded values included for denier numbers form a limited selection from the range of "Continental Rounded Decitex Values", which embraces the bulk of deniers produced and is already in use by the major man-made fibre producers.

To ensure a smooth transition to the Tex System it is necessary to maintain a degree of flexibility in regard to both the choice of unit and satisfying the reasonable requirements of spinners' customers. Adoption of the rounded values in the conversion table would, however, make a substantial contribution to rationalization since 466 traditional yarn counts would be replaced by 205 rounded tex values.

When the Tex System has been fully adopted, it is hoped that a range of tex values will ultimately evolve which will have more rational intervals between linear densities than those determined pragmatically and embodied in this International Standard.

1 SCOPE AND FIELD OF APPLICATION

This International Standard is intended to facilitate the changeover by industry and commerce from traditional yarn numbering systems to the Tex System (see ISO/R 1144).

It provides a range of recommended rounded linear densities in the Tex System to replace the yarn numbers in the six main traditional numbering systems referred to in section 6 and covers the great majority of yarns currently produced.