

# इंटरनेट

# मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 15378 (2003): Textile Machinery and Accessories -  
Cylindrical Tybes - Dimensions, Tolerances and Designation  
of Perforated Tubes for Cheese Dyeing (Superseding IS 574)  
[TXD 21: Dyeing, Finishing and Allied Machinery and  
Accessories]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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भारतीय मानक

वस्त्रादि मशीनरी एवं सहायकांग—बेलनाकार नालियाँ—  
चीज रंजन के लिए छिद्रदार नालियों के आयाम,  
छूटें तथा अभिनाम

*Indian Standard*

TEXTILE MACHINERY AND ACCESSORIES—  
CYLINDRICAL TUBES—DIMENSIONS, TOLERANCES  
AND DESIGNATION OF PERFORATED TUBES FOR  
CHEESE DYEING

ICS 59.120.20

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**BUREAU OF INDIAN STANDARDS**  
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NEW DELHI 110002

## NATIONAL FOREWORD

This Indian Standard which is identical with ISO 3914-7:1994 'Textile machinery and accessories — Cylindrical tubes — Part 7 : Dimensions, tolerances and designation of perforated tubes for cheese dyeing' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendations of Dyeing, Finishing and Allied Machinery and Accessories Sectional Committee (TX 21) and approval of the Textile Division Council.

This standard supersedes 'IS 574:1996/ISO 574:1979 'Textile machinery and accessories — Perforated cylindrical tubes for cheese dyeing' since ISO 574:1979 has been replaced by ISO 3914-7:1994.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker in the International Standard while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this standard, another International Standard ISO 3914-1:1994 'Textile machinery and accessories — Cylindrical tubes — Part 1 : Recommended main dimensions' has been referred to. The extracts from this International Standard which are relevant to this standard are given in National Annexure.

In reporting the results of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2:1960 'Rules for rounding off numerical values (*revised*)'.

*Indian Standard*

**TEXTILE MACHINERY AND ACCESSORIES—  
CYLINDRICAL TUBES—DIMENSIONS, TOLERANCES  
AND DESIGNATION OF PERFORATED TUBES FOR  
CHEESE DYEING**

**1 Scope**

This part of ISO 3914 specifies the main dimensions, tolerances and designation of cylindrical tubes of perforated tubes for cheese dyeing. Furthermore, directives are given for the characteristics of tubes and for the control of the inner diameter and length of the tube.

**2 Normative reference**

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 3914. At the time of publication, the

edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 3914 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3914-1:1994, *Textile machinery and accessories — Cylindrical tubes — Part 1: Recommended main dimensions*.

**3 Dimensions and tolerances**

See figure 1 and table 1.

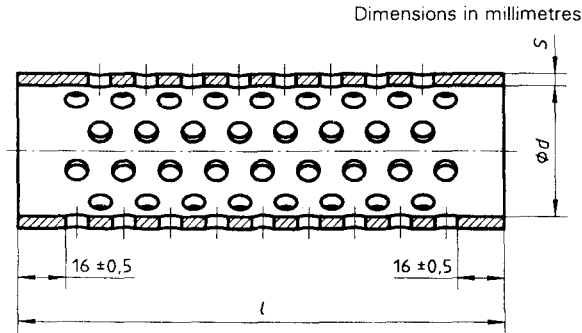


Figure 1 — Cylindrical tube

4 Characteristics

The following details shall be specified by the manufacturer:

- a) material of the tube (plastic or metal);
- b) nature of yarn to be wound;
- c) treatment;
- d) thickness of tube wall (corresponding to the material of tube and the nature of yarn to be wound);
- e) groove for transfer tail (if necessary);
- f) number, size and location of perforation.

5 Control of the inner diameter and length of the tube

To check the inner diameter of the tube a GO/NOT GO type gauge shall be used.

To verify that the length of the tube is within the specified tolerance, a suitable gauge for checking lengths, for example a slide-gauge, shall be used.

6 Designation

The designation of a cylindrical tube for perforated tubes for cheese dyeing shall include the following information, in the order given:

- a) "Cylindrical tube";
- b) a reference to this part of ISO 3914, i.e. ISO 3914-7;
- c) the inner diameter, *d*, in millimetres;
- d) the length, *l*, in millimetres.

EXAMPLE

A cylindrical perforated tube for cheese dyeing with an inner diameter *d* of 54 mm and length *l* of 170 mm shall be designated as follows:

**Cylindrical tube ISO 3914-7 - 54 × 170**

Table 1 — Inner diameters and lengths

Dimensions in millimetres

<i>d</i>		<i>l</i>		<i>s</i>	Diameter of corresponding dye spindle
nom.	tol. <sup>1)</sup>	nom.	tol.		
45	± 0,2	170	± 0,5	≤ 4	52 <sup>0</sup> <sub>-1</sub>
54 <sup>2)</sup>	± 0,2	170 <sup>2)</sup>	± 0,5		
		230	± 1		

1) In certain cases the tolerance on the inner diameter, *d*, can diverge from the values given. This depends on the field of application and should therefore be agreed upon between the parties concerned.

2) Principal dimensions as recommended in ISO 3914-1.

**NATIONAL ANNEXURE**  
**(Foreword)**

**Extracts from ISO 3914-1:1994 'Textile machinery and accessories — Cylindrical tubes —  
Part 1 : Recommended main dimensions'**

**Recommended main dimensions of tubes for future developments (Clause 3)**

Dimensions in millimetres

<b>Application</b>	<b>Inner diameter × length</b>	<b>Source</b>
Open-end yarns	54 × 170	ISO 3914-2
Tape yarns	90 × 230 90 × 290	ISO 3914-3
Textured yarns	69 × 290	ISO 3914-4
Continuous spin-drawn synthetic filament yarn	94 × 150 94 × 290 94 × 300 143 × 150 143 × 290 143 × 300	ISO 3914-5
Cross-wound packages in winding and twisting	56 × 175 69 × 290 94 × 290	ISO 3914-6
Cheese dyeing	54 × 170	ISO 3914-7



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This Indian Standard has been developed from Doc: No. TX 21 (0489).

**Amendments Issued Since Publication**

Amend No.	Date of Issue	Text Affected

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