

INTERNATIONAL STANDARD

**ISO
9903**

First edition
1991-12-15

Textile machinery and accessories — Wires for metallic card clothing

iTeh STANDARD PREVIEW
Matériel pour l'industrie textile — Fils pour garnitures de carte
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ISO 9903:1991

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Reference number
ISO 9903:1991(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9903 was prepared by Technical Committee ISO/TC 72, *Textile machinery and allied machinery and accessories*, Sub-Committee SC 1, *Spinning preparatory, spinning and doubling (twisting) machinery*.

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Annex A of this International Standard is for information only.

Textile machinery and accessories — Wires for metallic card clothing

1 Scope

This International Standard specifies the dimensions, tolerances, hardness and designation of three types of wires for metallic card clothing used on cylinder, doffer, licker-in and other rollers of cards.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 5234:1980, *Textile machinery and accessories — Metallic card clothing — Terms and definitions*.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 5234 apply.

4 Wire types

The wires shall be one of the following types:

type 1 — wire with normal rib (see figure 1);

type 2 — wire with E-type interlocking rib (see figure 2);

type 3 — wire with interchaining (V-type interlocking) rib (see figure 3).

5 Dimensions and tolerances

The dimensions and tolerances are specified in table 1.

6 Hardness

The hardness of the tooth (at the top) of the wire shall be 700 HV min. for cylinder wires and 650 HV min. for doffer and licker-in wires.

7 Designation

The designation of a wire for metallic card clothing shall include the following information in the order given:

- a) "Card wire";
- b) reference to this International Standard (i.e. ISO 9903);
- c) the type;
- d) the tooth form, including hand of teeth and base front angle δ ;
- e) the total height of wire h_1 , in millimetres;
- f) the rib width b_1 or the pitch width of rib b_6 , in millimetres.

Further specifications (e.g. tooth pitch, bending resistance, complementary front angle α , back angle) are subject to agreement between the user and the manufacturer.

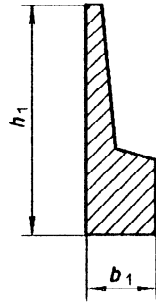


Figure 1 — Type 1

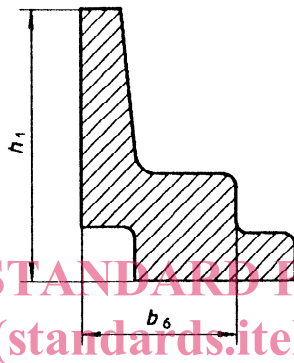


Figure 2 — Type 2
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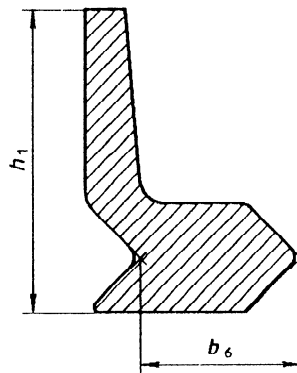


Figure 3 — Type 3

Table 1 — Dimensions and tolerances of wires

Dimensions in millimetres

Type	Dimension and symbol	Range	Size	Tolerance
1	Total height h_1	2,5 to 4	2,5 2,8 3,2 4	$\pm 0,02$
		greater than 4 up to 5	4,5 5	$\pm 0,03$
		greater than 5 up to 6	5,5	$\pm 0,04$
1	Rib width b_1	0,5 to 2,5	0,5 0,6 0,7 0,8 0,85 0,9 1 1,1 1,2 1,3 1,4 1,5 1,6 1,7 1,8 1,9 2 2,15 2,5	$\pm 0,02$
2	Total height h_1	4 to 7,5	4 5,5 7,5	$\pm 0,05$
	Pitch width of rib b_6	2,5 to 4,2	2,5 3,15 4,2	0 - 0,1
3	Total height h_1	5 to 7,5	5 6 7,5	$\pm 0,05$
	Pitch width of rib b_6	1,05 to 4,2	1,05 1,3 1,6 1,8 2,1 2,5 3,15 4,2	0 - 0,1

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Annex A
(informative)

Bibliography

- [1] ISO 6171:1982, *Textile machinery and accessories — Bead wires and corresponding grooves for cards — Main types and dimensions.*

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