***भारतीय मानक***

***Indian Standard***

**IS 12058 : 2024**

***घरेलू प्रयोजनों हेतु***

***सिलाई मशीनों के लिए स्लाइड प्लेट — विशिष्टि***

*(* पहला पुनरीक्षण )

**Slide Plates for Sewing Machines for Household Purposes ― Specification**

( *First Revision )*

ICS 61.080

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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**November 2024 Price Group X**

Sewing Machines Sectional Committee, MED 29

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Sewing Machine Sectional Committee had been approved by the Mechanical Engineering Division Council.

This standard covers the requirements for slide plates for sewing machines for household purposes.

This standard was first published in 1987. The first revision has been taken up for incorporating the modifications found necessary as a result of experience gained with the use of this standard. Also, in this revision, the standard has been brought into the latest style and format of Indian Standards, and references wherever applicable have been updated. The BIS certification marking clause has been modified to align with the revised *Bureau of Indian Standards Act,* 2016.

The composition of the Committee responsible for the formulation of this standard is given in Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard*

SLIDE PLATES FOR SEWING MACHINES FOR HOUSEHOLD PURPOSES ― SPECIFICATION

*( First Revision )*

**1 SCOPE**

This standard lays down requirements for slide plates for sewing machines for household purposes.

**2 REFERENCES**

The standards given below contain provisions which, through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of these standards:

|  |  |
| --- | --- |
| *IS No.* | *Title* |
| IS 513 (Part 1) : 2016 | Cold reduced low carbon steel sheets and strips: Part 1 Cold forming and drawing purpose (*sixth revision*) |
| IS 1068 : 1993 | Electroplated coating of nickel plus chromium and copper plus nickel plus chromium — Specification (*third revision*) |
| IS 2500 (Part 1) : 2000/ ISO 2859-1 : 1999 | Sampling procedures for inspection by attributes: Part 1 Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection (*third revision*) |
| IS 4905 : 2015/ ISO 24153: 2009 | Random sampling and randomization procedures (*first revision*) |

**3 MATERIAL**

The slide plate shall be made from steel sheet conforming to Grade CR1 of IS 513 (Part 1).

**4 DIMENSIONS AND TOLERANCES**

Shall be as shown in Fig. 1.



All dimensions in millimeters.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *A* | *B* | *C* | *D* |
| *Type A* | 13.13 $\begin{matrix}0\\-0.26\end{matrix}$ | 63.90 $\begin{matrix}0\\-0.20\end{matrix}$ | 23.08 $\begin{matrix}0\\-0.16\end{matrix}$ | 73.20 $\begin{matrix}0\\-0.40\end{matrix}$ |
| *Type B* | 12.83 $\begin{matrix}0\\-0.26\end{matrix}$ | 63.50 $\begin{matrix}0\\-0.20\end{matrix}$ | 22.94 $\begin{matrix}0\\-0.16\end{matrix}$ | 71.35 $\begin{matrix}0\\-0.40\end{matrix}$ |

Fig. 1 Dimensions for Slide Plate for Sewing Machine

**5 CONSTRUCTION AND FUNCTIONS**

**5.1** Play of slide plate shall be at a minimum when fitted to bed.

**5.2** Surfaces of the slide plate shall not project above the surface of the needle plate.

**5.3** The edges of the top surfaces shall be smoothly chamfered.

**5.4** Slide plate spring shall function properly.

**6 WORKMANSHIP AND FINISH**

**6.1** The slide plate shall be of superior finish, free from cracks, flaws burrs and rust.

**6.2** The slide plate shall be nickel-chrome plated in accordance with IS 1068. The thickness of plating shall conform to service grade 3.

**6.3** Plated surface shall be smooth and allow smooth feeding of fabrics. Colour and lustre of plated surface shall be satisfactory and free from unevenness.

**7 MARKING**

The slide plate shall be marked with the manufacturer’s name or trademark, if required.

**7.1 BIS Certification Marking**

The slide plates may also be marked with Standard Mark.

**7.1.1** The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

**8 PACKING**

Each slide plate shall be given a suitable anti-rust coating. The wrapped slide plates shall be securely packed in accordance with best prevalent trade practice. Each package shall bear the manufacturer’s name, trademark and the description of contents.

**9 SAMPLING**

Unless otherwise agreed to between the supplier and the purchaser, the sampling plan as given in Annex A shall be followed. For further information, reference may be made to IS 2500 (Part 1)/ISO 2859-1.

**ANNEX A**

(*Clause* 9)

**SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY**

**A-1 SCALE OF SAMPLING**

**A-1.1 Lot**

In any consignment, all the slide plates of the same type and manufactured from the same material under essentially similar conditions of manufacture shall be grouped together to constitute a lot.

**A-1.2** For ascertaining the conformity of the lot to the requirements of specification, tests shall be carried out for each lot separately. The number or slide plates to be selected at random for this purpose shall be in accordance with col (1) and col (2) of Table 1.

**Table 1 Scale of Sampling and Permissible Number of Defectives**

(*Clauses* A-1.2, A-1.4 *and* A-2.1)

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Number of Slide Plate***N* | **For Dimensions, Tolerances, Workmanship and Finish** |
| Sample Size*n* | Permissible Number of Defectives\* |
| (1) | (2) | (3) | (4) |
| i) | Upto 15 | 5 | 0 |
| ii) | 16 to 40 | 8 | 0 |
| iii) | 41 to 110 | 13 | 0 |
| iv) | 111 to 300 | 20 | 1 |
| v) | 301 to 500 | 32 | 1 |
| vi) | 501 to 800 | 50 | 2 |
| vii) | 801 to 1 300 | 80 | 3 |
| viii) | 1 301 and above | 125 | 5 |
|  | \*This ensures that lots containing only 1.5 percent or if less defectives shall be accepted most of the time. |

**A-1.3** If the slide plates are packed individually, in order to ensure the randomness of selection, IS 4905/ISO 24153 shall be used.

**A-1.4** If the slide plates are packed in different cartons, a suitable number of cartons (not less than 20 percent of the total in the lot subject to a minimum of 2) shall be chosen at random. From each of the cartons so chosen, an approximately equal number of slide plates shall be picked up from its different parts so as to obtain the required number of slide plate specified in col (2) of Table 1.

**A-2 NUMBER OF TESTS AND CRITERIA FOR CONFORMITY**

**A-2.1** The slide plates selected according to **A-1.2** and **A-1.3** or **A-l.4** shall be examined for dimensions and tolerances (*see* **4**), and workmanship and finish (*see* **6**). If the number of slide plates failing to meet one or more of the requirements mentioned above is less than or equal to the permissible number of defectives given in col (3) of Table 1, the lot shall be declared as conforming to the requirements of these characteristics.

**ANNEX B**

(*Foreword*)

**COMMITTEE COMPOSITION**

Sewing Machines Sectional Committee, MED 29

|  |  |  |
| --- | --- | --- |
| *Organization* |  | *Representative (s)* |
| Research & Development Centre for Bicycle and Sewing Machines, Ludhiana |  | Shri Sanjeev Katoch (***Chairperson***)  |
| Research & Development Centre for Bicycle and Sewing Machines, Ludhiana |  | Shri Papinder Singh  Shri Vishwas Mehta (*Alternate* I) Shri Manpreet Singh (*Alternate* II) |
| Brother International (India) Private Limited, Mumbai |  | Shri Mathew Yohannan |
| C.R. Auluck & Sons Private Limited, Ludhiana |  | Shri Sunil Auluck Shri Kuljeet Singh (*Alternate*) |
|  Directorate General of Quality Assurance, New Delhi |  | Shri R.V. Jain |
| G.D. Rupal Industries, Ludhiana |  | Shri Gurmukh Singh |
| Gee Tech Hooks, Ludhiana |  | Shri Manjeet Singh |
| Geminy Industrial Enterprises Private Limited, Ludhiana |  | Shri Vinay Dua Shri B.C. Pandey (*Alternate*)  |
| Ludhiana Sewing Machine Association, Ludhiana |  | Shri Hardeep Singh Shri Rajvinder (*Alternate*) |
| Makhan Sewing Machines, Ludhiana |  | Shri Dalbir Singh Dhiman |
| Narindera and Company, Ludhiana |  | Shri S. Baldev Singh Shri Harinder Jit Singh (*Alternate*) |
| Navrang Manufacturing Corporation, Ludhiana |  | Shri Dinesh Kapila Shri Sudesh Kapila (*Alternate*) |
| Northern India Textile Research Association, Ghaziabad |  | Shri Vikas Sharma Shri Vivek Agarwal (*Alternate*) |
| Novel Sewing Machine Technologies, Pune |  | Shri Bharat Narayendas Parmar Shri Arjun Bharat Parmar (*Alternate*) |
| ORAA International, Ludhiana |  | Shri Ashish Gupta |
| Office of Development Commissioner (MSME), New Delhi |  | Shri Suvankar Santra Ms Maitreyee Talapatra (*Alternate*) |
| Ranew Engineering (India) Private Limited, Ludhiana |  | Shri Sanjeev Kumar Jain Shri Abhilash Jain (*Alternate*) |
| Singer India Limited, New Delhi |  | Shri Prashant Aggarwal Shri Atul Kumar Seth (*Alternate*) |
| Swan Mechanical Works, Ludhiana |  | Shri Amarjeet Singh |
| United Sewing Machines and Parts Manufacturing Association, Ludhiana |  | Shri Dalbir Singh Dhiman |
| Usha International Limited, New Delhi |  | Shri Rup Lal Kangla  Shri Pranay Sriwastav (*Alternate*) |
| Uttam Sewing Machine Company (Private) Limited, Jalandhar |  | Shri Jagdeep Rai Shri Manohar Lal (*Alternate*) |
| Virindra Engineering Works, Ludhiana |  | Shri Amarpreet Singh Panesar Shri Swarn Singh (*Alternate*) |
| Voluntary Organisation in Interest of Consumer Education (VOICE), New Delhi |  | Shri M. A. U. Khan |
| BIS Directorate General |  | Shri K. Venkateswara Rao, Scientist ‘F’/Senior Director and Head (Mechanical) [Representing Director General (*Ex-officio*)] |

*Member Secretary*

Shri Shubham Tiwari

Scientist ‘D’/Joint Director

 (Mechanical), BIS