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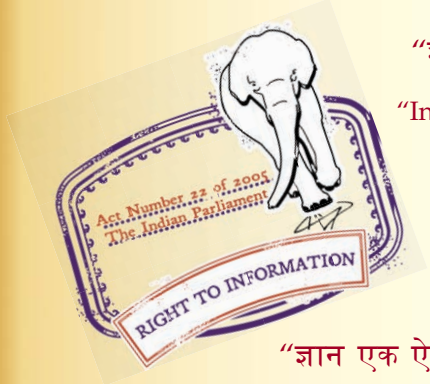

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IS : 4747 - 1986
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Indian Standard

SPECIFICATION FOR PADS FOR RUBBER STAMPS

(Second Revision)

UDC 686·866

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Gr 2

March 1987

Indian Standard

SPECIFICATION FOR PADS FOR RUBBER STAMPS

(Second Revision)

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Indian Standard

SPECIFICATION FOR PADS FOR RUBBER STAMPS

(Second Revision)

0. FOREWORD

0.1 This Indian Standard (Second Revision) was adopted by the Indian Standards Institution on 30 September 1986, after the draft finalized by the Inks and Allied Products Sectional Committee had been approved by the Chemical Division Council.

0.2 This standard was originally issued in 1968 and revised in 1977. In the original standard the colours of the inked pad were not specified. These were included in the first revision. Changes were also made in the constructional requirements of the base pad.

0.3 In IS : 393-1975* two grades of ink are prescribed. Grade A is meant for general use and Grade B is meant for quick drying. The latter is used for marking ballot papers at the time of elections. As such pads, with ink of Grades B cannot pass the performance and keeping quality tests prescribed in this standard. Further, the rubber stamps pads which are sold normally in the market are for general use only and inked with Grade A ink of IS : 393-1975*. The Committee, therefore, decided to cover only such pads in this second revision of this standard. For test purposes the ink conforming to Grade A of IS : 393-1975* shall only be used.

0.4 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 : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for fabric stamp-pads for general use with rubber stamps.

*Specification for ink, stamp pad (*second revision*).
†Rules for rounding off numerical values (*revised*).

2. SIZES

2.1 The stamp-pads shall be of the following three sizes based on the inner dimensions of the container:

a) Large size 16·0 × 9·0 cm
b) Medium size 11·0 × 7·0 cm
c) Small size 9·0 × 5·0 cm

2.1.1 A tolerance of ±0·1 cm shall be permitted on each dimension.

3. COLOURS

3.1 The stamp-pads may be with or without ink. The inked pads shall have ink (Grade A) as specified in IS : 393-1975*. It shall be of any of the five colours — violet, blue, green, red and black.

4. REQUIREMENTS

4.1 Material

4.1.1 *Pad* — The pad shall have a non-absorbent base where a base is required to provide support for felt and covering cloth. Otherwise there shall be some suitable fixing arrangement for the cloth covered felt to remain inside the container.

4.1.1.1 *Pad assembly* — The stamp-pad shall have one or two layers of felt, medium hard type, conforming to IS : 1719-1979†. The total thickness of the felt shall be not less than 3·0 mm. The whole felt shall be covered and securely fixed with a piece of bleached long cloth which shall be free from starch (with 260 ends and 232 picks per dm, and mass 120 g per m^2; the tolerance on ends, picks and mass shall be ± 5 per-cent) (*see* IS : 187-1978‡). A blotting paper shall be placed just under the long cloth for uniform spreading of the ink. The entire pad assembly shall be wrapped in a suitable moisture resistant film like polyethylene, cellulose, of not less than 40 microns if the pad is supplied duly inked.

4.1.1.2 The pads shall be so constructed that when the stamp is applied to the inked pad evenly, sufficient ink shall be transferred to the face of the type of the stamp to produce a sharp and uniformly clear and legible impression. Pads which do not uniformly ink the face of the type, or pads which allow surplus ink to adhere to the shoulder or sides of the type, shall not be accepted.

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*Specification for ink, stamp-pad (*second revision*).
†Specification for wool, felt (pressed) (*second revision*).
‡Specification for cotton long cloth (*second revision*).

4.1.2 *Container* — The pad assembly shall be placed in a suitable plastics or metal container with a hinged lid as agreed to between the purchaser and the supplier. It shall be free from sharp edges, and if made from metal shall not rust.

4.1.2.1 The pad assembly shall be so held that it rests firmly at the bottom of the container without moving or sliding and shall not touch the inside of the lid.

4.2 Performance — The stamp-pad shall conform to the requirements of the test prescribed in **4.2.1**.

4.2.1 Ink the type face of a clean and dry rubber stamp by pressing it firmly on the inked pad. Make an impression immediately upon a sheet of typewriting paper (*see* IS : 1848-1981*). The pad shall conform to the requirements of the test if the impressions are sharp and uniformly clear and legible, and there is no filling of closed portion of letters or other characters and no impressions other than those determined by the type face. In case of uninked pad, stamp-pad ink conforming to Grade A of IS : 393-1975† shall be used for testing.

4.2.1.1 Repeat the operation by inking the rubber stamp and making impressions ten times without further inking the stamp. The tenth impression shall be sharp and distinct.

4.3 Keeping Quality — The stamp-pads shall pass the accelerated ageing test prescribed in **4.3.1**.

4.3.1 Keep the inked pad in an oven at 60 $\pm$ 2°C for four hours. Allow to cool to room temperature and take an impression. Repeat the operation of heating and stamping four times. The stamp-pad shall meet the requirements of the test if all the impressions are sharp and distinct.

4.4 Resistance to Corrosion (for Metal Containers) — The metal containers shall pass the test for corrosion as prescribed in **4.4.1**.

4.4.1 Suspend the metal containers above water in a desiccator type vessel containing water in place of hygroscopic material, for 48 hours at room temperature. The container shall satisfy the requirement of the test if at the conclusion of this exposure, there is no indication of attack on the protective coating or corrosion of the metal.

*Specification for writing and printing papers (*second revision*).
†Specification for ink, stamp-pad (*second revision*).

5. MARKING AND PACKING

5.1 Marking — The stamp-pad shall be marked legibly with the following information:

a) Size of the pad;

b) Colour of pad, if inked;

c) Manufacturer's name and/or recognized trade-mark, if any; and

d) Batch number in code or otherwise to enable the lot of manufacture to be traced from records.

5.1.1 The stamp-pads may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

5.2 Packing — The stamp-pads shall be packed as agreed to between the purchaser and the supplier.

6. SAMPLING

6.1 The method of drawing representative samples of the material from a lot, number of tests to be performed and the method of finding out the criteria of conformity of the material to the requirements of this specification shall be as prescribed in Appendix A.

APPENDIX A

(*Clause* 6.1)

SAMPLING OF STAMP-PADS FOR RUBBER STAMP

A-1. SCALE OF SAMPLING

A-1.1 Lot — In a single consignment all the stamp-pads of the same size and colour belonging to the same batch of manufacture shall constitute a lot.

A-1.2 For ascertaining conformity to the requirements of this specification, each lot shall be considered separately.

A-1.3 The number of samples to be selected for inspection from each lot shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SCALE OF SAMPLING

Number of Pads in the Lot (N)	Number of Pads in the Sample (n)	Permissible Number of Defective Pads (a)
(1)	(2)	(3)
Up to 50	2	0
51 to 150	5	1
151 to 300	8	2
301 io 500	13	3
501 to 1 000	20	5
1 001 and above	32	7

A-1.4 The samples shall be withdrawn at random from the lot. For random selection procedures, guidance can be had from IS : 4905-1968*. In case random number tables are not available, the following procedure may be adopted:

Starting from any stamp-pad, count all the stamp-pads in the lot in one order as 1, 2, 3, ..., etc, up to r and so on where r is the integral part of N/n (*see* Table 1 for N and n). Every rth pad thus counted shall be withdrawn to constitute the sample.

A-2. NUMBER OF TESTS AND CRITERIA FOR CONFORMITY

A-2.1 All the stamp-pads in the sample selected according to **A-1.3** and **A-1.4** shall be inspected for all the requirements of the specification. Any stamp-pad in the sample failing to meet one or more of the requirements shall be considered as defective.

A-2.2 The lot shall be declared conforming to the requirements of this specification if the number of defective stamp-pads in the sample does not exceed the corresponding permissible number (a) given in col 3 of Table 1.

*Methods for random sampling.

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

Quantity	Unit	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

Quantity	Unit	Symbol
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

Quantity	Unit	Symbol	Definition
Force	newton	N	1 N = 1 kg.m/s^2
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m^2
Frequency	hertz	Hz	1 Hz = 1 c/s (s^{-1})
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m^2

INDIAN STANDARDS INSTITUTION

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones : 331 0131 331 1375

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices:	*Telephone*
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