

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 6990 (1973): Knife, Brain, Post-mortem [MHD 1: Surgical Instruments]



“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”

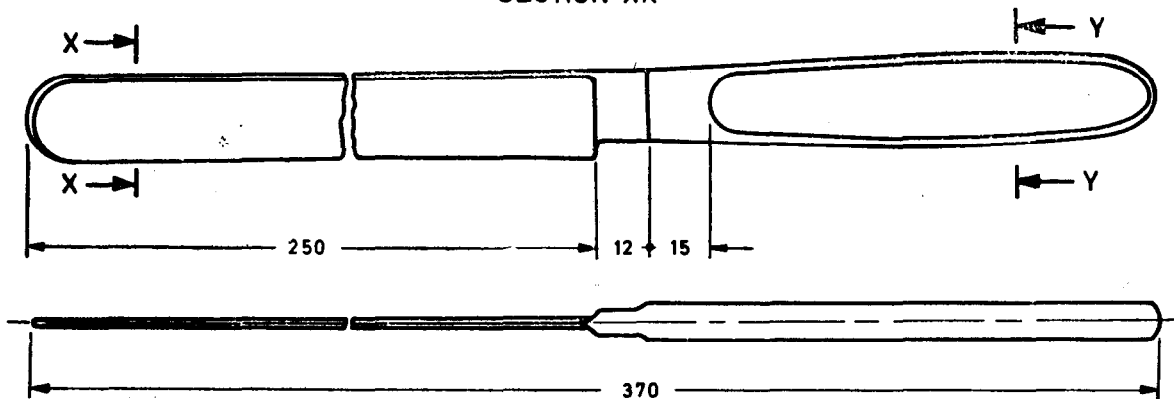
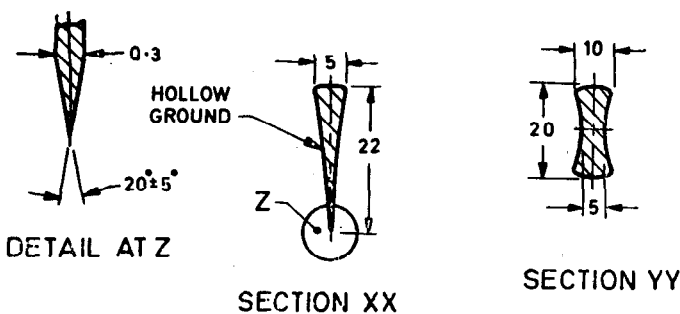
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Indian Standard
SPECIFICATION FOR
KNIFE, BRAIN, POST-MORTEM

1. **Scope** — Covers the requirements for brain knife used in post-mortem.
2. **Materials**
- 2.1 *Carbon Steel* — Class 4, Designation C45 of Table 1 of IS : 1875-1971 ' Specification for carbon steel billets, blooms, slabs and bars for forgings (*third revision*) '.
- 2.2 *Stainless Steel* — Designation 40Cr13 of Table 1 of IS : 6603-1972 ' Specification for stainless steel bars and flats '.
3. **Shape and Dimensions** — As shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 KNIFE, BRAIN, POST-MORTEM

4. **Workmanship and Finish**
- 4.1 The knife shall be symmetrical about its central plane and the cutting edge of the knife shall lie in the central plane.
- 4.2 The blade shall be highly polished and free from any blemishes. All edges other than the cutting edge shall be rounded. The cutting edge shall be surgically sharp and free from feathers, nicks, high spots, waviness and undulation. The knife shall be free from cracks. The handle shall have a matt finish.
- 4.3 The knives made from stainless steel shall be passivated. The knives made from carbon steel shall be plated chromium over nickel and plating shall conform to Service Grade No. 2 of IS : 1068-1968 ' Specification for electroplated coatings of nickel and chromium on iron and steel (*first revision*) '.
5. **Heat Treatment** — The blade of the knife shall be evenly hardened and tempered to a hardness of 550 to 650 HV.

Adopted 22 August 1973

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Gr 1

6. Tests

6.1 View Under Magnification — Examine the cutting edge under a magnification of $10\times$ in two directions along and perpendicular to the plane of the edge. It shall not reveal any feather edge, nick, high spot, waviness or undulation.

6.2 Performance Test — Test the knife by cutting a piece of chamois leather with moderate pressure. Make two such cuts. The knife shall cut the chamois leather cleanly along the entire length. The knife shall not show any sign of damage when examined as given in 6.1 after the test.

6.3 Corrosion Resistance Test — Scrub the sample with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or swab with wet cotton wool. Make up the solution as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0 g
Sulphuric acid (H_2SO_4) (sp gr 1.84)	10.0 g
Distilled water [see IS : 1070-1960 Specification for water, distilled quality (revised)]	90.0 ml

There shall be no red stains or spots on the sample but dulling of the polished surface may be permitted.

7. Marking — The knives shall be clearly and indelibly marked with the manufacturer's name, initials or recognized trade-mark. The letters 'SS' shall be marked on knives manufactured from stainless steel.

7.1 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — The blade of the carbon steel knives shall be coated with a corrosion resisting substance. The knives shall be individually wrapped in moisture-proof paper or put in polyethylene bags and packed suitably in cardboard cartons so that the cutting edge does not get damaged. The knives may also be packed as agreed to between the purchaser and the supplier.