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भारतीय मानक मसौदा
क्यूरेट, एडेनोइड, सेंट क्लेयर थॉमसन पैटर्न के लिए विशिष्टि
(IS 7712 का पहला पुनरीक्षण)

Draft Indian Standard
Specification for Curette, Adenoid, St. Clair Thomson's Pattern
(First Revision of IS 7712)

[ICS 11.040.30]

Ear, Nose, Throat, Head & Neck Surgery
Instruments Sectional Committee, MHD 04

Last date for comments: **05 Aug 2024**

FOREWORD

(Formal clause will be added later)

This standard was originally published in 1975. The First revision of this standard has been brought out to align it with updated references and to bring the standard in line with the latest format of Indian Standards.

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 same as that of the specified value in this standard.

Indian Standard
**SPECIFICATION FOR TRACHEOSTOMY TUBES AND GUIDES,
CUBLEY'S PATTERN**

1 SCOPE

Dimensional and other requirements for St. Clair Thomson's pattern adenoid curt with cage of sizes 8, 10, 12, 14, 16 and 18 mm used in ENT surgery.

2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute provisions 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 editions of these standards.

<i>IS No.</i>	<i>Title</i>
IS 6603 : 2024	Stainless Steel Semi-Finished Products, Bars, Wire Rods and Bright Bars — Specification (<i>second revision</i>)
IS 410 : 1977	Specification for cold rolled brass sheet, strip and foil (<i>third revision</i>)
IS 6911 : 2017	Stainless steel plate, sheet and strip - Specification (<i>second revision</i>)
IS 1068 : 1993	Electroplated coatings of nickel plus chromium and copper plus nickel plus chromium - Specification (<i>third revision</i>)
IS 7531 : 1990	Surgical instruments - Corrosion resistance of stainless steel surgical instruments - Methods of tests (<i>first revision</i>)

3 SHAPE AND DIMENSIONS

As shown in Fig. 1 and 2.

3.1 A deviation of ± 2.5 percent shall be allowed on all dimensions.

4. MATERIAL

4.1 Shank and Cage – Stainless steel conforming to Designation 40Cr13 of IS: 6603

4.2 Handle – Brass sheet conforming to alloy grade CuZn40 of IS: 410- Designate 04Cr18Ni10 or 07Cr18Ni9 of IS: 6911

5. WORKMANSHIP AND FINISH

5.1 The surfaces of the curette shall be free from pits, dents, burrs, scale and other defects.

5.2 All edges shall be even and rounded.

5.3 The curette shall be well and evenly hardened.

5.4 The handle and the shank shall be of force fit or screwed and soldered,

5.5 The brazing and soldering shall be neat and sound. The joints shall be finished smooth.

5.6 The teeth shall be pointed and force fit to the cage.

5.7 The tap of the spoon shall be well and evenly made. Cut. The fenestra in the spoon shall be neatly

5.8 The handle of the curette (if made of brass) shall be plated chromium over nickel and the plating shall conform to Grade 2 of IS: 4827.

5.9 The stainless steel components shall be polished bright and passivated.

5.10 The lever action of the spring shall be such that when the cage is in midway between the shank and the blade it shall spring back to fit snugly against the blade.

5.11 There shall not be any gap between the cutting edge and the cage at the bottom. Gaps shall be provided on both sides for opening purposes.

5.12 Locking arrangement between the cage and the shank shall be such that there shall not be any play after assembly.

6. HEAT TREATMENT

The instrument shall be hardened and tempered to give a hardness of 400 to 450 *HV* when measured as near to the working edge as possible.

7. TESTS

7.1 Performance - Edge of a hardwood block shall be scraped for 10 times by the sharp edge of the curette along the grain. The curette shall scrape the wood smoothly and cleanly with moderate degree of force. On completion of test the edge of the blade shall not show any sign of damage or distortion.

7.2 Flexibility - Clamp the curette in a suitable vice along its axis such that 60 mm of the shaft

portion from the tip protrudes outside the vice. At a distance of 15 mm from the tip. Suspend a load of 40 N (4 kgf approx) gradually on completion of the test the curette shall show no sign of damage or permanent set.

7.3 Corrosion Resistance - The instrument shall satisfy the boiling and autoclaving test as mentioned in IS: 7531.

7.4 Subject to agreement between the purchaser and the supplier, the instrument may be put to the following test.

7.4.1 Copper sulphate 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 wet cotton wool. Composition of the solution shall be as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0g
Sulphuric acid (H_2SO_4) (SP gr 1'84)	10.0g
Distilled water 1. see IS : 1070-1960	90.0ml

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

8 MARKING

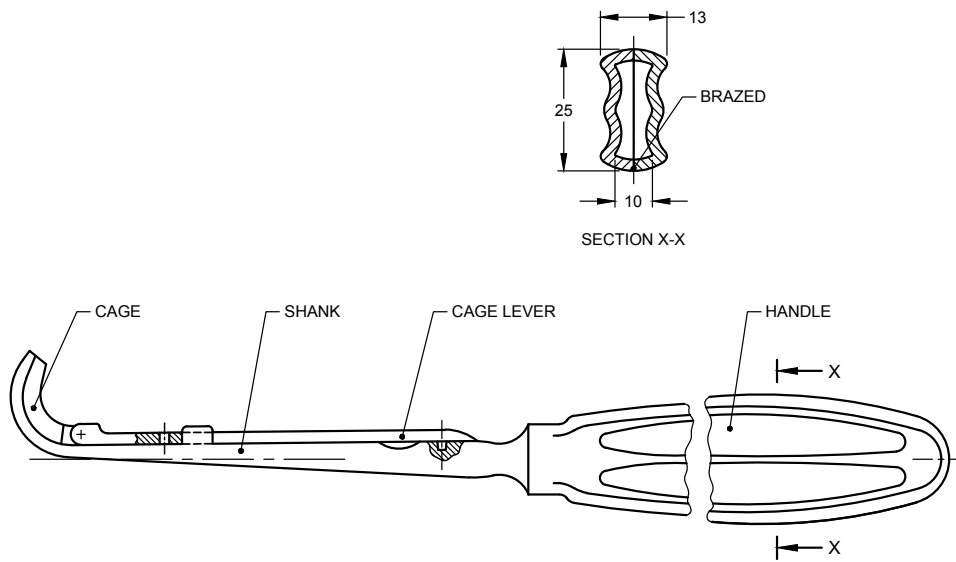
The snare shall be clearly and indelibly marked with the manufacturer's name, initial ,recognized trade-mark, serial number, batch number and lot number.

9 BIS CERTIFICATION MARKING

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.

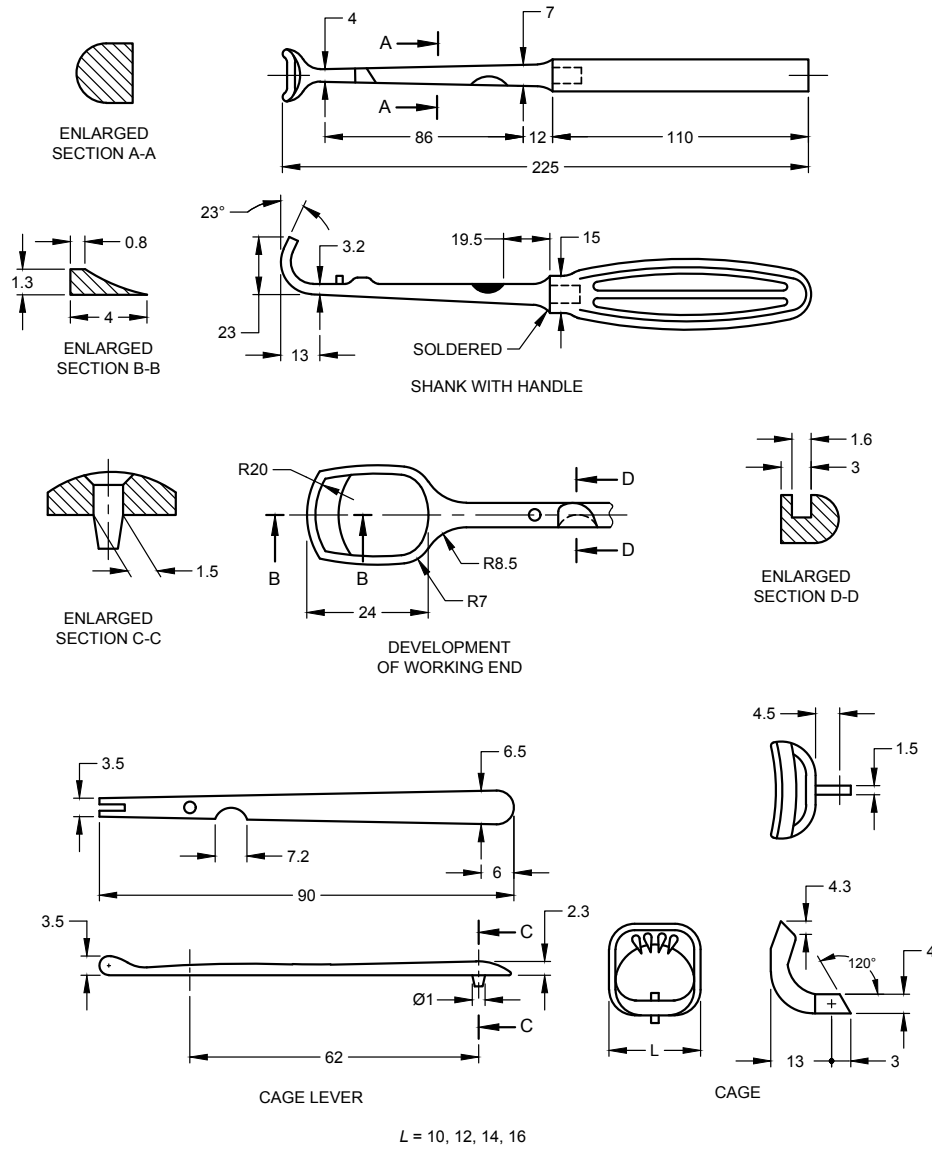
10 PACKING

The curette shall be wrapped in moisture-proof paper or packed in polyethylene bags, avoiding contact with one another. Purchaser and the supplier. The curette may also be packed as agreed to between the



All dimensions in millimetres.

FIG. 1 CURETTE, ADENOID, ST. CLAIR THOMSON'S PATTERN



L = 10, 12, 14, 16

All dimensions in millimetres.

FIG. 2 DETAILS, CURETTE, ADENOID, ST. CLAIR THOMPSON'S PATTERN