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भारतीय मानक मसौदा
ईएनटी सर्जरी उपकरण — स्टाइलट के साथ सक्शन ट्यूब —
विशिष्टि

(IS 8837 का पहला पुनरीक्षण)

Draft Indian Standard

**ENT Surgery Instruments — Suction Tube with Stylet
— Specification**

(First Revision of IS 8837)

[ICS 11.040.30]

Ear, Nose, Throat and Head & Neck Surgery (ENT -
H&N) Instruments Sectional Committee, MHD 04

Last date for comments:
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FOREWORD

(Formal clause will be added later)

This standard was originally published in 1978. The first revision of this standard has been brought out to align it with the recent developments and to bring the standard in line with the latest style and 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***ENT SURGERY INSTRUMENTS — SUCTION TUBE WITH
STYLET — SPECIFICATION****1 SCOPE**

This standard covers dimensional and other requirements for suction tube with stylet used in microlaryngeal 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 1570 (Part 5) : 1985	Schedules for wrought steels: Part 5 stainless and heat – Resisting steels (<i>Second Revision</i>)
IS 410 : 1977	Specification for cold rolled brass sheet, strip and foil (<i>Third Revision</i>)
IS 1068 : 1993	Electroplated coatings of nickel plus chromium and copper plus nickel plus chromium – Specification (Third Revision)

3 SHAPE AND DIMENSIONS

3.1 The shape and dimensions shall be as shown in **Fig. 1**.

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

3.3 A deviation of $\pm 2.5^\circ$ shall be allowed on all angles.

4 MATERIAL

Stainless steel conforming to Designation X04Cr18Ni10 or X07Cr18Ni19 of Schedule V of IS 1570 (part V) or brass conforming to Designation CuZn37 or CuZn40 of IS 410.

5 WORKMANSHIP AND FINISH

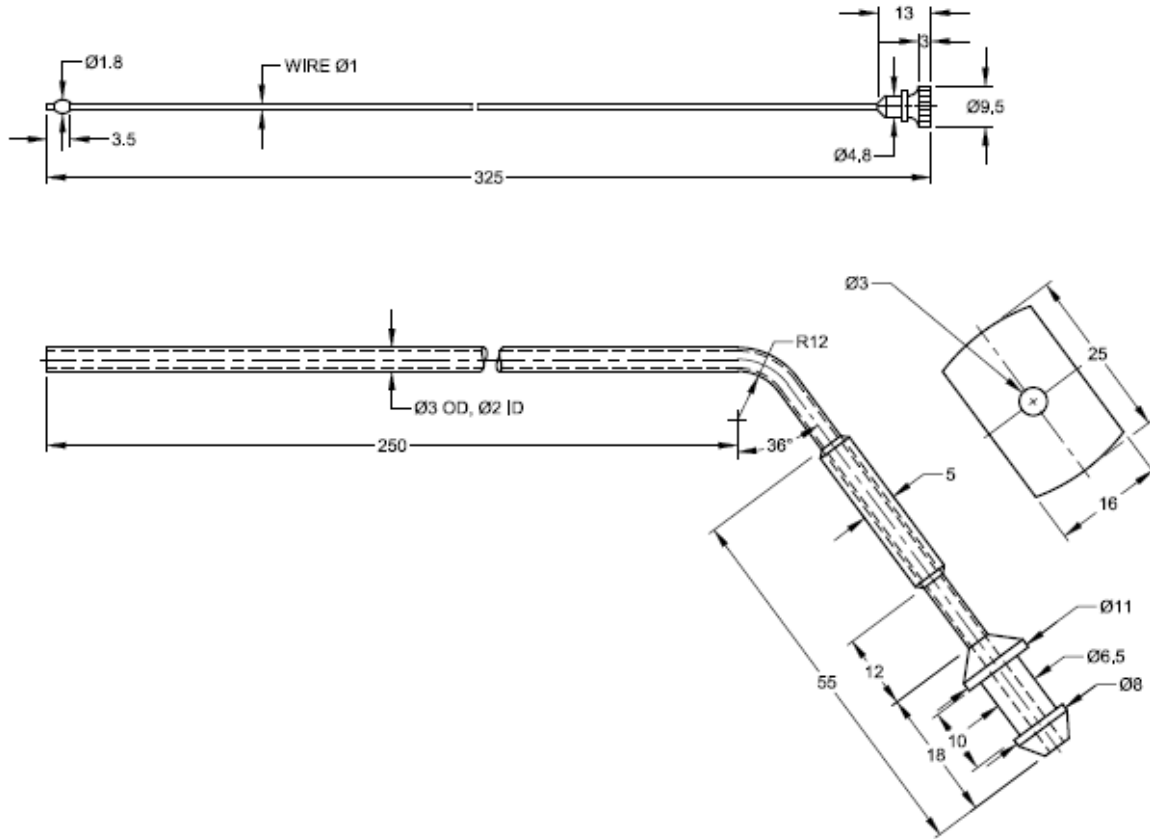
5.1 The suction tube shall be free from scales, pits, burrs, cracks and other surface defects.

5.2 The suction tube shall be well formed.

5.3 Welding, soldering or brazing shall be neat and sound.

5.4 The suction tube shall be dull matt finished and passivated.

5.5 The suction tube shall be accompanied with the proper stylet.



All dimensions in millimeters.
FIG. 1 SUCTION TUBE WITH STYLET

5.6 The suction tube if made of brass shall be plated nickel and chromium conforming to Grade 2 of IS 4827.

6 TESTS

6.1 The suction tube if made of stainless steel shall be tested as given in 5.1.1.

6.1.1 Corrosion resistance

Scrub the sample with soap and warm water. Rinse in hot water and then dip in go-percent ethyl alcohol, Dry the sample. Immerse in copper sulphate solution at room temperature for 5 minutes and wash off with fresh water or wet cotton wool.

6.1.2 The copper sulphate solution shall be prepared 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]

90.0 ml

6.1.3 No red stains or spots in the sample shall be allowed.

7 MARKING

7.1 Each suction tube shall be marked with manufacturer's name, initials or recognized trademark, size, country of manufacture and the words 'SS' if made of stainless steel.

7.2 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.

8 PACKING

Each suction tube shall be wrapped in a moisture-proof paper and put in a cardboard or polyethylene bag. The packing may also be done as agreed to between the purchaser and the supplier.