BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा

एक्सट्रैक्टर, स्टेपल, आर्थोपेडिक — विशिष्टि

(IS 7106 का पहला पुनरीक्षण)

Draft Indian Standard

Extractor, Staple, Orthopaedic — Specification

(First Revision of IS 7106)

ICS 11.040.30

Orthopaedic Instruments, Implants and Last date for comments: 27 November 2024
Accessories Sectional Committee, MHD 02

FOREWORD

(Formal clauses will be added later)

This standard was first published in 1973. The first revision of this standard has been brought out to align the cross references to latest 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*)'.

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1 SCOPE

This standard specifies dimensions and other requirements for staple extractor used for extracting staples from the bone.

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.

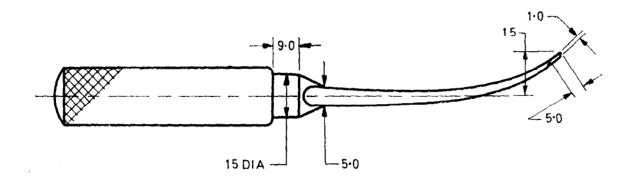
IS No.	Title
IS 1070: 2023	Reagent Grade Water — Specification (fourth revision)
IS 6603: 2024	Stainless Steel Semi-Finished Products, Bars, Wire Rods and Bright
	Bars — Specification (second revision)

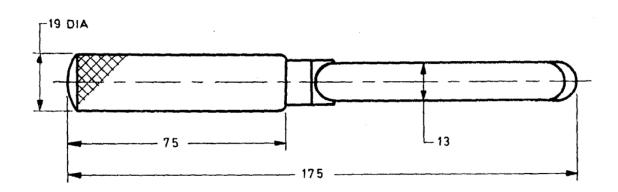
3 MATERIAL

Specification - Stainless steel bars conforming to Designation 40Crl3 or 30Crl3 of IS 6603 for stainless steel bars and flats.

4 SHAPE AND DIMENSIONS

As shown in Fig. 1





All dimensions in millimetres.

FIG. 1 EXTRACTOR, STAPLE, ORTHOPAEDIC

5 HEAT TREATMENT

The extractor shall be hardened and tempered to 450 to 500 HV.

6 WORKMANSHIP AND FINISH

- **6.1** The extractor shall be made in one piece.
- **6.2** The blade end shall be tapered for extracting staple as shown in Fig. 1,
- **6.3** The extractor shall be free from pits, burrs, draw-marks, cracks and other surface contaminations,
- **6.4** It shall be passivated and polished bright.

7 TEST

7.1 Corrosion Resistance Test

7.1.1 Scrub the instrument with soap and warm water, rinse in hot water ant then dip in 95 percent ethyl alcohol. Dry the instrument, immerse in temperature for 6 minutes and wash with fresh water or wet cotton wool.

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7.1.2 The copper sulphate solution shall be made up as follows:

Copper sulphate (CuSO₄.5H₂O) 4.0 g Sulphuric acid (H₂SO₄) (Sp gr 1.84) 10.0 g Distilled water (*see* IS 1070). 90.0 ml

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

8 MARKING

Shall be marked with the manufacturer's name or recognized trade-mark.

8.1 BIS Certification Marking

The product(s) confirming 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.

9 PACKING

As agreed to between the purchaser and the supplier.