गाइड, सॉ, डी मार्टेल पैटर्न — विशिष्टि

IS 8696: 2024

(पहला पुनरीक्षण)

Guide, Saw, De Martel's Pattern — Specification

(First Revision)

ICS 11.040.30

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Neurosurgery Instruments, Implants and Accessories Sectional Committee, MHD 07

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards after the draft finalized by the Neurosurgery Instruments, Implants and Accessories Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1978 'Specification for guide, saw, de martel's pattern'. This revision includes minor changes in references to incorporate the updated designation of steel and the currently used methods of test for hardness and corrosion resistance.

The composition of the Committee responsible for formulation of this standard is given in Annex A.

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

GUIDE, SAW, DE MARTEL'S PATTERN — SPECIFICATION

(First Revision)

1 SCOPE

This standard covers material, dimensions and other requirements for De Martel's pattern saw guide in two sizes used in neurosurgery.

2 REFERENCES

IS No.

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 6911 : 2017 Stainless steel plate, sheet and strip — Specification (second revision)

IS 7531 : 1990 Surgical instruments —

Corrosion resistance of stainless steel surgical instruments — Methods of tests (first revision)

Title

3 MATERIAL

The components shall be made of stainless-steel strip conforming to Designation X30Cr13 of IS 6911. Rivets and guide pin shall be made of the same material as used for the forceps.

4 SHAPE AND DIMENSIONS

It shall be as shown in Fig. 1.

A deviation of \pm 2.5 percent shall be allowed on all dimensions.

5 WORKMANSHIP AND FINISH

5.1 The guide shall be of one-piece construction and shall be free from burrs, pits, cracks and other surface defects. It shall have a gentle inside curve, concave towards the hook side as shown in Fig. 1.

The front end or tip shall be suitably thickened by means of silver soldering as shown in Fig. 1.

- **5.2** The hook for wire saw shall be punched out of strip and formed in the shape as shown in Fig. 1. It shall be sufficiently strong and shall not be liable to yield or break up during use.
- **5.3** All edges of the guide, including the hook for wire saw, shall be evenly rounded and shall be nowhere sharp. The silver soldering shall be clean and sound.
- **5.4** The guide shall be polished bright and passivated.

6 HEAT TREATMENT

The guide shall be suitably hardened and tempered to give a uniform hardness of 400 HV to 450 HV.

7 TESTS

7.1 Flexibility Test

Bring two ends of the guide closer towards the concave side, to a distance of 50 mm from each other and release them, Repeat it five times. As a result of this test, the guide shall not acquire a permanent set.

7.2 Load Test

Holding the guide vertically, hang a load of 20 N from the guide hook for a period of 5 min. The hook shall not yield or open up during the test.

7.3 Corrosion Resistance

The guide shall conform to the requirements of IS 7531.

8 MARKING

Each guide shall be marked by etching or otherwise with the manufacturer's name, initials or recognized trademark, along with its size, that is, 'Adult' or' Child' as the case may be. Manufacturer's name,

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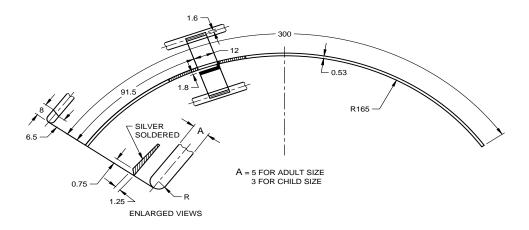
initials or registered trademark, serial number, batch number in the provided space

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 PACKAGING

The guide shall be packed in a polyethylene cover. It may also be packed as agreed to between the purchaser and the supplier. On the package of the product batch number, lot number, and serial number shall be mentioned



All dimensions in millimetres.
FIG. 1 GUIDE SAW, DE MARTEL'S PATTERN

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ANNEX A

(<u>Foreword</u>)

COMMITTEE COMPOSITION

Neurosurgery Instruments Implants and Accessories Sectional Committee, MHD 07

Organization	Representative(s)
G B Pant Hospital, New Delhi	Dr Daljit Singh (Chairperson)
Abbott Healthcare India Private Limited, Mumbai	MS LIPI CHAKHAIYAR MS SHWETA SHARMA (<i>Alternate</i>)
Association of Indian Medical Device Industry, New Delhi	SHRI NAVEEN KHANNA SHRI PUHAZHENDI KALIYAPPAN (<i>Alternate</i> I) SHRI ANKUR BHARGAVA (<i>Alternate</i> II)
Boston Scientific India Private Limited, Gurugram	SHRI DEV CHOPRA SHRI PRASHANTH PRABHAKAR (Alternate)
Central Drugs Standard Control Organization, New Delhi	SHRI ASEEM SAHU MS SHYAMNI SASIDHARAN (<i>Alternate</i>)
Defence Bio-Engineering and Electromedical Laboratory, Ministry of Defence, Bengaluru	SHRI JAYANT DANIEL SHRI G. SRIPATHY (Alternate)
Directorate General of Health Services, New Delhi	DR AJAY CHOUDHARY SHRI K. B. SHANKER (<i>Alternate</i>)
Happy Reliable Surgeries Private Limited, Bengaluru	SHRI HEMANT SAVALE SHRI SANJEEV GAUTAM (Alternate)
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Skull Base Surgery Society of India, Chennai	Shri Harsh Deora
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BIS Directorate General	SHRI A. R. UNNIKRISHNAN, SCIENTIST 'G' AND HEAD (MEDICAL EQUIPMENT AND HOSPITAL PLANNING) [REPRESENTING DIRECTOR GENERAL (Ex-officio)]

Member Secretary

MS HARSHADA GANESH KADAM

SCIENTIST 'B'/ASSISTANT DIRECTOR

(MEDICAL EQUIPMENT AND HOSPITAL PLANNING), BIS

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Amendments Issued Since Publication

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