***भारतीय मानक***

***Indian Standard***

**IS 10088 : 2024**

**डेंटल रिट्रेक्टर — विशिष्टि**

*( पहला पुनरीक्षण )*

**Dental Retractor — Specification**

( *First Revision )*

ICS 11.060.20

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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**December 2024 Price Group X**

Dentistry Sectional Committee, MHD 08

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards on the recommendation of the Dentistry Sectional Committee and after approval of the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1981 as ‘Specification for retractor, dental’ This revision aligns the cross references to the latest standards, incorporates revised designations for steel and revised certification clause.

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 the same as that of the specified value in this standard.

*Indian Standard*

DENTAL RETRACTOR — SPECIFICATION

*( First Revision )*

1. **SCOPE**

This standard covers dimensional and other requirements for retractor used in dentistry.

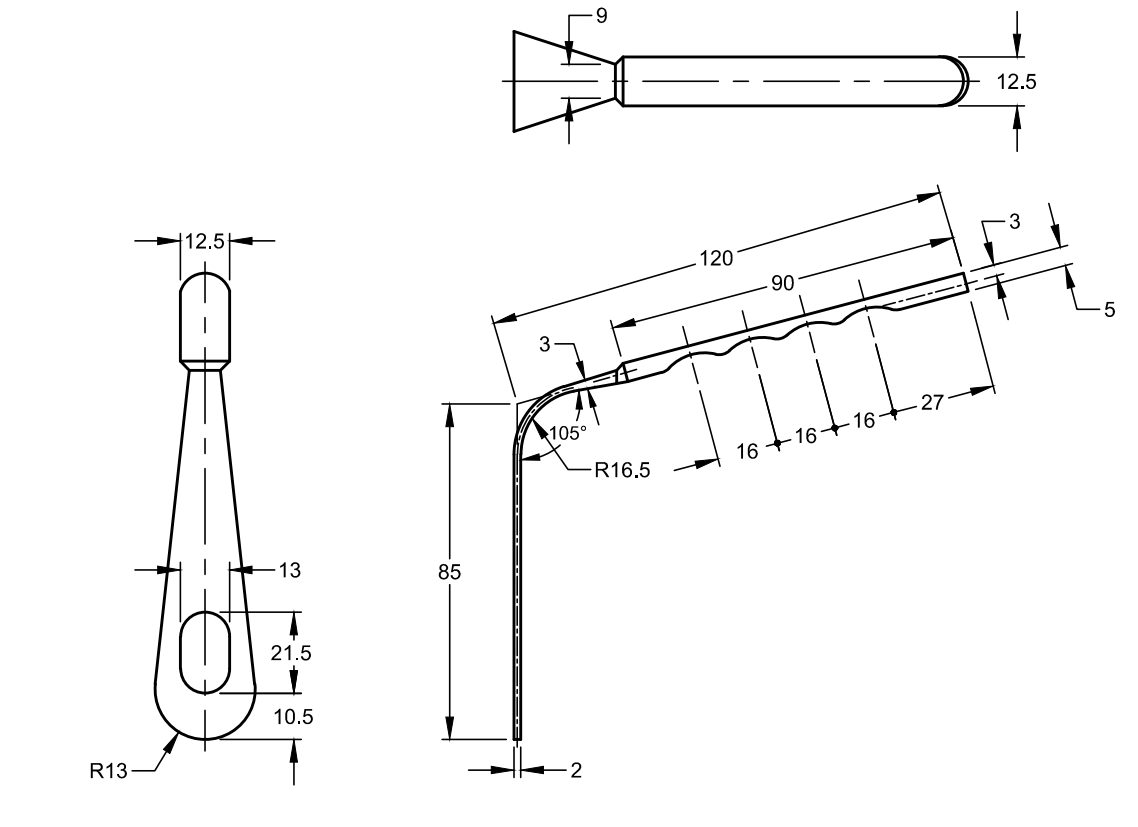
1. **REFERENCES**

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 edition of these standards.

|  |  |
| --- | --- |
| *IS No.* | *Title* |
| IS 6603 : 2024 | Stainless steel semi-finished products, bars, wire rods and bright bars — Specification (*second revision*) |
| IS 7531 : 1990 | Surgical instruments — Corrosion resistance of stainless steel surgical instruments — Methods of tests (*first revision*) |

1. **SHAPE AND DIMENSIONS**

As shown in Fig. 1 to 4 for various types.

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All dimensions in millimetres.

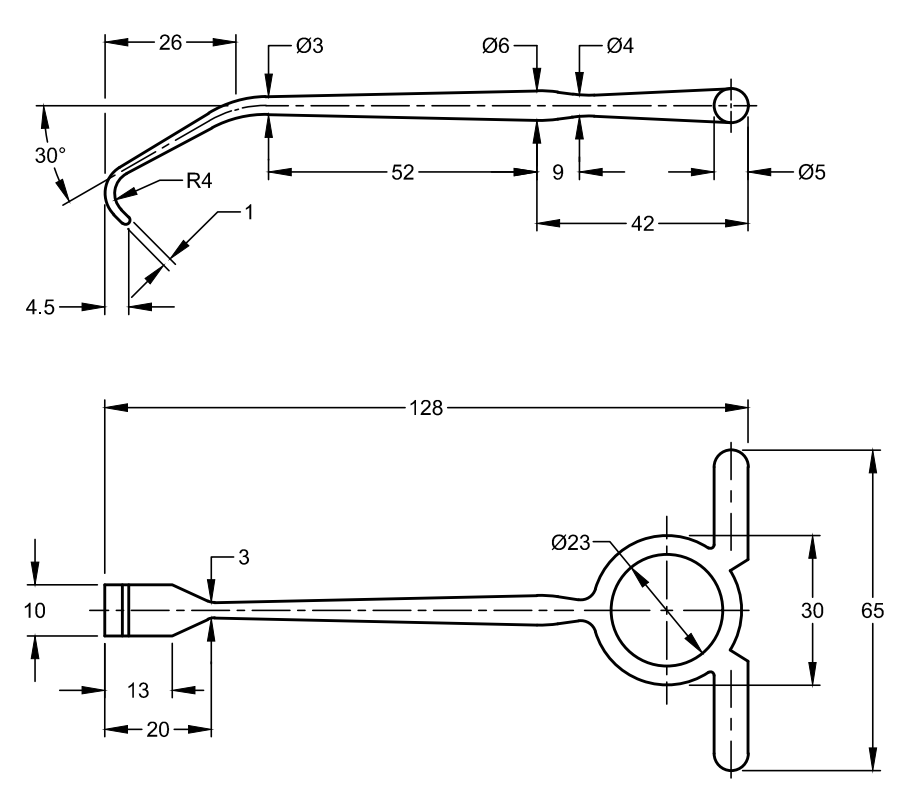
Fig. 1 Retractor, Dental (Type 1)

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

1. **MATERIAL**

Stainless steel conforming to Designation X30Cr13 of IS 6603.

1. **WORKMANSHIP AND FINISH**
   1. The surfaces of the instrument shall be free from burrs, pits, cracks and other defects, and shall be finished smooth.
   2. The edges shall be even. They shall be rounded and shall not incise the skin.
   3. The instrument shall be soundly forged and balanced on its central line.
   4. The instrument shall be passivated and polished bright.

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All dimensions in millimetres.

Fig. 2 Retractor, Dental (Type 2)

1. **HEAT TREATMENT**

The instrument shall be uniformly hardened and tempered to a hardness of 430 HV to 530 HV.

1. **CORROSION RESISTANCE TEST**

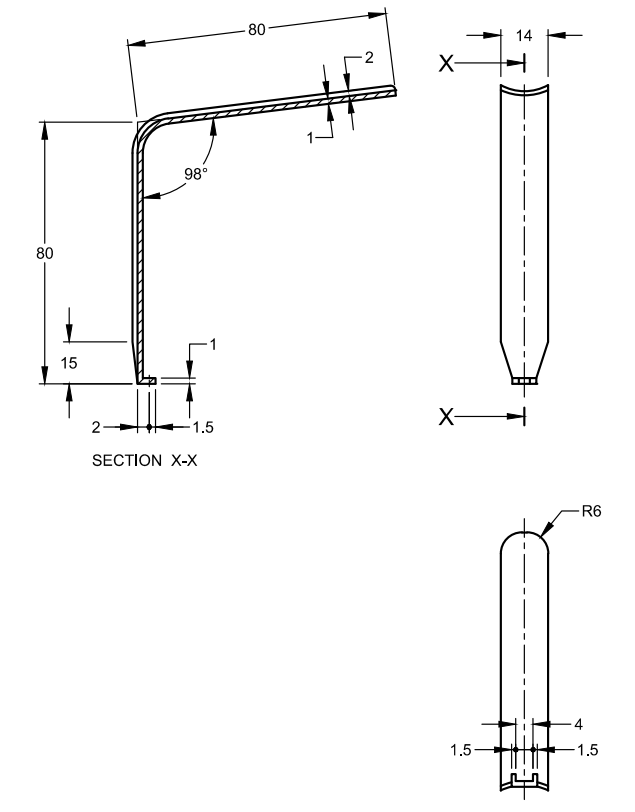
Test the instrument as prescribed in IS 7531. It shall show no sign of corrosion after the test.

1. **MARKING**
   1. Each instrument shall be marked with the manufacturer's name, initials or recognized trade-mark and the country of manufacture.
   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 there under, and the product(s) may be marked with the Standard Mark.

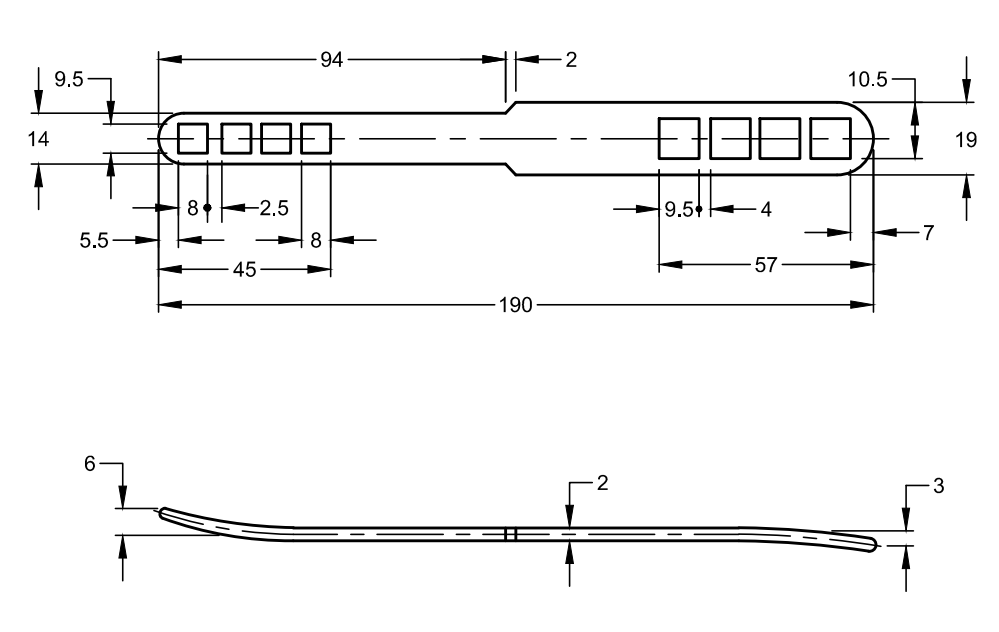
1. **PACKING**

The instrument shall be wrapped in a moisture-proof paper or packed in a polyethylene bag using suitable cushioning material like folded tissue paper, and shall then be packed in individual carton, or shall be packed as agreed between the purchaser and the supplier.



All dimensions in millimetres.

Fig. 3 Retractor, Dental (Type 3)



All dimensions in millimetres.

Fig. 4 Retractor, Dental (Type 4)

**ANNEX A**

(*Foreword*)

**COMMITTEE COMPOSITION**

Dentistry Sectional Committee, MHD 08

|  |  |
| --- | --- |
| *Organization* | *Representative(s)* |
|
| SRM Dental College, Chennai | Dr N. Gopi Chander ***(Chairperson)*** |
| All India Institute of Medical Sciences, New Delhi | Dr Ritu Duggal |
| Dr Krushna Vasant Kumar Bhatt (*Alternate* I) |
| Dr Siddhartha Sharma (*Alternate* II) |
| Association of Indian Medical Device Industry, New Delhi | Dr Sai Kalyan |
| Dr C. S. Prasad (*Alternate*) |
| Central Drugs Standard Control Organization, New Delhi | Shri Aseem Sahu |
| Shri Ajai Basil (*Alternate*) |
| Indian Academy of Oral Medicine and Radiology, Bengaluru | Dr Mandeep Kaur |
| Dr Abhishek Sinha (*Alternate*) |
| Indian Association of Oral and Maxillofacial Pathologists, Chennai | Dr Sushmita Saxena |
| Dr Deepak Bhargava (*Alternate* I) |
| Dr Anubhuti Sood (*Alternate* II) |
| Indian Association of Public Health Dentistry, Chennai | Dr Manjunath Puranik |
| Dr Vamsi Krishna Reddy L. (*Alternate* I) |
| Dr Tanushri Mahendra Dalvi (*Alternate* II) |
| Indian Endodontic Society, New Delhi | Dr Sanjay Miglani |
| Dr Amrita Chawla (*Alternate* I) |
| Dr Ruchika Roongta (*Alternate* II) |
| Indian Prosthodontic Society, Hyderabad | Dr Neeta Pasricha |
| Dr Aditi Nanda (*Alternate*) |
| Indian Society for Dental Research, Chennai | Prof P. Rajesh |
| Prof Deepak Chandrasekharan (*Alternate*) |
| J. Morita Corporation, Mumbai | Shri Ghanshyam Dusija |
| Shri Lokesh Jadhav (*Alternate*) |
| Kalam Institute of Health Technology, Vishakhapatnam | Dr Kavita Kachroo |
| Dr R. N. Prudhvi Teja (*Alternate*) |
| Office of Development Commissioner (MSME), New Delhi | Dr Maitreyee Talapatra |
| Tamil Nadu Government Dental College, Chennai | Dr K. Ramkumar |
| Dr T. Rohini Mds (*Alternate*) |
| In Personal Capacity (*R1/2 HIG Maraimalai nagar town center, Maraimalai nagar, Kattankulathur, Chengalpattu (DT) – 603203*) | Dr S. Jayachanadran |
| BIS Directorate General | Shri Chinmay Dwivedi, Scientist 'E' and Head (Medical Equipment and Hospital Planning) [Representing Director General (*Ex-officio*)] |
| *Member Secretary*  Ms Uroosa Warsi  Scientist ‘C’/Deputy Director  (Medical Equipment and Hospital Planning), BIS | |