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Dental rotary instruments — Diamond instruments —

Part 3:

Grit sizes, designation and colour code

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Instruments rotatifs dentaires — Instruments diamantés —

Partie 3: Tailles des grains, désignation et code de couleur

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Reference number
ISO 7711-3:1992(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7711-3 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Sub-Committee SC 4, *Dental instruments*.

ISO 7711 consists of the following parts, under the general title *Dental rotary instruments — Diamond instruments*:
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- *Part 1: Shapes, main dimensions and requirements*
- *Part 2: Discs*
- *Part 3: Grit sizes, designation and colour code*

ISO 7711:1984 is considered as part 1 of this series.

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Dental rotary instruments — Diamond instruments —

Part 3:

Grit sizes, designation and colour code

1 Scope

This part of ISO 7711 specifies the designation, colour code and grit sizes for dental diamond rotary instruments which are used commonly in the dental surgery. It applies to all types of dental diamond rotary instruments independent of type and shape.

Attention is drawn to ISO 6360-1 and ISO 6360-2 which specify a 15 digit number for the identification of dental rotary instruments of all types.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 7711. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 7711 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6360-1:1985, *Dental rotary instruments — Number coding system — Part 1: General characteristics*.

ISO 6360-2:1986, *Dental rotary instruments — Number coding system — Part 2: Shape and specific characteristics*.

ISO 6360-2:1986/Amd.1:1991, Amendment 1.

ASTM-E-11-81, *Test methods for characterizing duplex grain sizes*.

ANSI-B74.20-1981, *Grading of Diamond Powder in Sub-Sieve Sizes*.

FEPA,¹⁾ *Standard for Diamond Grains Sizes* (1972).

3 Designation, colour code, grit sizes

3.1 Designation

The designation of the diamond instruments in regard to the fineness of the diamond grit used shall conform with the designation of table 1.

3.2 Colour code

The colour code complements the designation. It is commonly used on the instrument itself. Colour coding is optional at the discretion of the manufacturer. If colour coding is used, the colours shall be those specified in table 1.

It is at the discretion of the manufacturer where on the diamond instrument the colour is applied.

3.3 Grit sizes

The grit sizes as specified in table 1 shall be used for all types of diamond instruments.

The grit sizes and their classification in regard to their fineness are selected according to relevant national or international regulations quoted in the top line of table 1.

1) FEPA: Fédération Européenne des Fabricants de Produits Abrasifs

Because of the difficulty of separating grain sizes, overlapping areas are unavoidable and commonly accepted.

Columns 3, 4 and 5 indicate grit size areas and their equivalent designation in national and international regulations.

Table 1 — Designation, colour code, grit sizes

Designation of instrument by grit size	Colour code	Grit size µm	ASTM-E-11-81 mesh designation ANSI B74.20, Micro-size	FEPA grit designation
ultra-fine	white	4 to 9 6 to 14	6 9	M 6,3 to M 10 M 6,3 M 10
extra-fine	violet	10 to 22	15	M 16
very fine	yellow	16 to 36 27 to 54	30 45	M 25 to M 40 M 25 M 40
fine	red	27 to 54 37 to 44 44 to 53 53 to 62 62 to 74	45 325/400 270/325 230/270 200/230	M 40 to D 76 M 40 D 46 D 54 D 64 D 76
standard	blue	62 to 74 74 to 88 88 to 105 105 to 125	200/230 170/200 140/170 120/140	D 76 to D 126 D 76 D 91 D 107 D 126
coarse	green	105 to 125 125 to 149 149 to 177	120/140 100/120 80/100	D 126 to D 181 D 126 D 151 D 181
super-coarse	black	149 to 177 177 to 210 210 to 250	80/100 70/80 60/70	D 181 to D 251 D 181 D 213 D 251

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Descriptors: dentistry, dental equipment, dental rotary-cutting instruments, diamond tools, specifications, grain size, designation, colour codes.

Price based on 2 pages
