INTERNATIONAL STANDARD

ISO 6009

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Hypodermic needles for single use — Colour coding for identification

Aiguilles hypodermiques non réutilisables — Code de couleurs pour l'identification

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

The committee responsible for this document is 150/TC 84, Devices for administration of medicinal products and catheters.

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This fourth edition cancels and replaces the third edition (ISO 6009:1992),4 which has been technically revised. It also incorporates a Technical Corrigendum ISO 6009:1992/Cor.1:2008.

The main changes to the previous edition of ISO 6009 introduced by this revision are the following:

- a) broadening of the range of needles to designated needle size down to 0,18 mm;
- b) review of the use of instrumentally determined colour zones (chromaticity and luminance index) as used in previous editions to specify opaque colours and has decided that instrumental measurement is not practicable;
- c) revision of Annex A;
- d) deletion of Annex B.

Introduction

The intention of this International Standard is to specify colours to enable rapid visual identification of the outer diameter of single-use hypodermic needles. The presence of colour coding on a needle or package does not absolve the user of the responsibility to check the marked size of the needle. This revision defines, in addition, colours for more fine needles to follow the trend in the market.

The colours used to code needles may be applied in either opaque or transparent form, and the colour code is equally applicable to regular walled, thin-walled, extra-thin and ultra-thin walled needles. The nominal outer diameters of needles listed in this International Standard for which colours are given are those specified in ISO 9626.

This International Standard establishes a colour code but does not specify that needles are to be colour-coded or to what portion of the needle and/or packaging the colour is to be applied. Such requirements may be given in the relevant product standards such as ISO 7864.

The measurement of the colour zone of an opaque colour, especially of an item of the size and shape of the hub of a needle, is a complex procedure requiring apparatus and expertise that is to be found in relatively few laboratories and test houses. It may therefore be inconvenient, difficult or impossible for a manufacturer or purchaser routinely to assess compliance of a product with colour zone values. Such difficulties are compounded in the case of translucent colours, which are being used increasingly by needle manufacturers to allow air bubbles inside the hub to be seen and eliminated before injection.

As a consequence, the colours in this International Standard are only referenced by a colour reference system (RAL) or by Pantone Matching System accepting that this inevitably introduces a certain amount of subjectivity in the assessment of compliance.

Guidance on transition periods for implementing the requirements of this International Standard is given in ISO/TR 19244.

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Hypodermic needles for single use — Colour coding for identification

1 Scope

This International Standard establishes a colour code for the identification of single-use hypodermic needles of designated metric size in the range of 0,18 mm (34 Gauge) to 3,4 mm (10 Gauge). It applies to regular-walled, thin-walled, extra-thin-walled and ultra-thin walled needles, and to opaque and translucent colours.

This International Standard is not applicable to pen-needles.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

designated metric size

outer diameter designation of the tubing as defined in Table 1

Note 1 to entry: It is expressed in millimetres.

2.2

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gauge

legacy size designation

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Note 1 to entry: A particular gauge size corresponds to a designated metric size defining limits for outer diameters.

3 Colour code

The colour shall indicate the nominal outer diameter of the tube of the needle and shall be as given in Table 1.

<u>Annex A</u> contains certain guidance to commonly applied colour reference systems for opaque materials.

Designated metric size Colour Gauge mm 34 0,18 Orange 0,2 33 Black 0,23 32 Deep green 0,25 White 31 30 Yellow 0,3 29 Red 0,33 0,36 28 Blue-green 0,4 27 Medium grey 26 Brown 0,45 0,5 25 Orange 0,55 24 Medium purple

Table 1 — Colour code

 Table 1 (continued)

Designated metric size mm	Gauge	Colour
0,6	23	Deep blue
0,7	22	Black
0,8	21	Deep green
0,9	20	Yellow
1,1	19	Cream
1,2	18	Pink
1,4	17	Red-violet
1,6	16	White
1,8	15	Blue-grey
2,1	14	Pale green
2,4	13	Purple
2,7	12	Pale blue
3	11	Green-yellow
3,4	10	Olive brown

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Annex A (informative)

Reference colour samples

Table A.1 — Reference colour samples

Designated metric size mm	Gauge	Colour	RAL reference	Pantone reference
			2007	1575
0,18	34	Orange	2003	157
			2008	164
	33	Black	9004	Black 3
0,2			9005	Black 4
			9017	Black 6
			6010	348
0,23	32	Deep green	6001	349
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	(stan	dard <u>s</u> .iteh.a	9003	11-0601
0,25	31	White	9010	11-0602
		ISO 6009;2016	9016	11-0103
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0,3	30 b4792	9e81303/jso-6009-2016 Yellow	1021	107
			1023	109
	29	Red	3017	1797
0,33			3018	711
			3031	187
	28	Blue-green	5009	3025
0,36			5001	302
			5020	309
	27	Medium grey	7047	427
0,4			7035	428
			7044	429
	26	Brown	8016	7517
0,45			8017	7518
			8015	7519
	25	Orange	2007	1575
0,5			2003	157
			2008	164
			4001	666
0,55	24		4005	667
			Not available	668