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Jewellery and precious metals — Grading polished diamonds — Terminology, classification and test methods

Joaillerie et métaux précieux — Classification des diamants taillés — Terminologie, graduations et méthodes d'essai

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Coi	ntent	S	Page
Fore	word		v
Intr	oductio	n	vi
1	Scop	e	1
2	-	native references	
3		is and definitions	
4	Gene 4.1	ralThe use of the word "diamond"	
	4.1	Composite stones/assembled stones	
5		and measurements	
3	5.1	Mass	
	5.2	Measurements	
6	Color	ır	6
	6.1	General	6
		6.1.1 Colourless to yellow, brown and grey (D to L)	6
		6.1.2 Colourless to yellow, brown and grey (M to Z)	
	6.2	6.1.3 Other hues	
	6.3	Colour grades (other than for yellow, brown and grey)	
	6.4	Colour grades (other than for yellow, brown and grey)	9
7	Clari		
,	7.1	ty(standards.iteh.ai) General	10
	7.2	Clarity grades	10
	7.3	Clarity characteristics <u>ISO 24016:2020</u> https://grandards.ireh.gi/catalog/standards/sist/d62594fd_e4d4_48f0_b136_	10
	7.4	Clarity grades Clarity characteristics Laser drillfingdards.iteh.ai/catalog/standards/sist/d625a4fd-e4d4-48f2-b136-4bd4d88303de/iso-24016-2020	10
8			12
	8.1 8.2	Cut characteristicsShape	
	8.3	Proportions	
	0.0	8.3.1 Description	
		8.3.2 Basis for descriptions of proportions	12
		8.3.3 Table size (percentage)	
		8.3.4 Crown height (percentage) and/or crown angle (degrees)	13
		8.3.5 Pavilion depth (percentage) and/or pavilion angle (degrees)	13
		8.3.7 Culet size (percentage) and description	
		8.3.8 Total depth/height	14
	0.4	8.3.9 Proportions comment	
	8.4	Finish	
		8.4.1 Polish	
9	Idon	tification	
10		ng mass and measurements	
	10.1 10.2	Testing mass Testing measurements	
11			
11	11.1	ng and grading colour and fluorescence	
	11.1	Masterstones for colour	
	11.3	Procedure	
		11.3.1 Precautions	
		11 3 2 Cleaning	19

ISO 24016:2020(E)

		11.3.3 Comparisons	
		11.3.4 Round stones	
		11.3.5 Fancy shapes	
		11.3.6 Colours	
		11.3.7 Lighting	
		11.3.8 Positioning 11.3.9 The grade	
		11.3.10 Master-eye effect.	
	11.4	Description of fluorescence	
	11.1	11.4.1 Equipment and References	
		11.4.2 Masterstones for fluorescence	
		11.4.3 Working conditions and methodology	
		11.4.4 Fluorescence, other than blue	
12	Testi	ng and grading clarity	23
	12.1	General	23
	12.2	Apparatus	
	12.3	Procedure	
		12.3.1 General	23
		12.3.2 Lighting	
		12.3.3 Distance	
		12.3.4 Plotting	
		12.3.5 Plotting symbols	
		12.3.6 Laser drill holes 12.3.7 Surface grain lines 13.3.7 Surface grain li	
		12.3.7 Surface grain lines12.3.8 Internal graining	
		12.3.9 General (standards italy	28
12	Tooti	(Stanual us.iten.ai)	20
13		ng shape	
14	Testi	ng and grading proportions ISO 24016:2020 Appropriate instruments itch ai/catalog/standards/sist/d625a4fd-e4d4-48f2-b136- Description 4bd4d88303de/iso-24016-2020	28
	14.1	Appropriate instruments lien avcatalog/standards/sisvdb25a4td-e4d4-48t2-b13b-	28
	14.2	Description 40040650500 80-24010-2020	28
		14.2.1 Table sizes 14.2.2 Crown height	
		14.2.3 Pavilion depth	
		14.2.4 Girdle thickness	
		14.2.5 Culet size	
	14.3	Proportions comments	
15	Gradi	ing of symmetry and polish (Finish)	
13	15.1	Symmetry	29
	15.2	Polish	
16	Expr	ession of results	
17	_	nents	
18		ond grading report	
Anne		rmative) Clarity, polish and symmetry characteristics	
Anne	ex B (inf	Formative) Clarity examples	38
Bibli	ograph	y	55

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).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html. (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 174, Jewellery and precious metals. $_{\rm ISO\ 24016\ 2020}$

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The aim of a standard for grading unmounted polished diamonds is to set rules for determining with maximum precision and accuracy the mass, colour, clarity and cut of individual polished diamonds. On one hand, based on these four criteria - also known as "the 4C's" - the diamond trade evaluates the value of diamonds. On the other hand, some diamond grading reports may be issued based on different standards by different laboratories, potentially leading to different results for the same individual diamond. This situation damages the reputation of the whole diamond trade. Hence, the need for a unique ISO standard for grading polished diamonds.

Today, the need for an ISO standard for the grading of polished diamonds is supported by recent agreements between international and national diamond organizations with CIBJO (The World Jewellery Confederation) with the aim of adopting CIBJO's unique diamond grading and diamond nomenclature standard.

Together with ISO 18323, which sets the nomenclature for diamonds, synthetic diamonds and diamond simulants, an ISO standard for the grading of polished diamonds will strengthen the trust in the diamond industry worldwide.

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Jewellery and precious metals — Grading polished diamonds — Terminology, classification and test methods

1 Scope

This document specifies the terminology, classification and the methods that are used for the grading and description of single unmounted polished diamonds over 0,25 carat (ct).

This document applies to natural, unmounted, polished diamonds. It is not to be used for fancy coloured diamonds, synthetic diamonds, treated diamonds (other than is allowed for in 7.4), nor for assembled stones.

2 Normative references

The following document is referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 18323, Jewellery — Consumer confidence in the diamond industry

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3 Terms and definitions (standards.iteh.ai)

For the purposes of this document, the terms and definitions given in ISO 18323 and the following apply. $\underline{ISO\ 24016:2020}$

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- 4bd4d88303de/iso-24016-2020
 ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

3.1

polished diamond

diamond with a defined *cut* (3.5)

3.1.1

diamond

mineral consisting essentially of carbon crystallised in the isometric (cubic) crystal system, with a hardness on the Mohs' scale of 10, a specific gravity of approximately 3,52 and a refractive index of approximately 2,42, created by nature

Note 1 to entry: The denomination "diamond" without further specification always implies "natural diamond". These two terms are equivalent and carry the same meaning.

3.1.2

treated diamond

diamond (3.1.1) having undergone any human intervention other than cutting, polishing, cleaning and setting, to permanently or non-permanently change its appearance

EXAMPLE Coating, fracture filling, heating, irradiation, laser drilling, HPHT treatment or any other physical or chemical process.

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3.1.3

synthetic diamond

laboratory-grown diamond

laboratory-created diamond

artificial product that has essentially the same chemical composition, crystal structure and physical (including optical) properties as a *diamond* (3.1.1)

Note 1 to entry: The English terms laboratory-created diamond or laboratory-grown diamond may be used synonymously with synthetic diamond. Where there is no acceptable local direct translation of the English terms laboratory grown diamond or laboratory created diamond then only the translation of the term synthetic diamond should be used.

Note 2 to entry: Abbreviations such as "lab grown", "lab created" "lab diamond" or "syn diamond" shall not be used.

Note 3 to entry: The word "laboratory" refers to the facility which produces the synthetic diamonds. This should not to be confused with a gemmological laboratory that is dedicated to the analysis, authentication, identification, classification (grading) of diamonds.

3.1.4

composite stone

assembled stone

stone constructed of two or more parts

3.2 Internal characteristics

3.2.1

bearding

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tiny feathers (3.2.8) extending in from the girdled ards.iteh.ai)

3.2.2

bruise

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surface percussion mark, accompanied by tiny, root-like *feathers* (3.12.8)d4-48f2-b136-4bd4d88303de/iso-24016-2020

3.2.3

cavity

large or deep opening

3.2.4

chip

damage, usually occurring along the girdle or culet, which alters the outline of the stone

Note 1 to entry: Also to be considered as an external characteristic (see 3.3.4) depending upon depth.

3.2.5

cleavage

large feather (3.2.8) occurring in a plane, parallel to a crystal face

3.2.6

cloud

hazy or milky area made up of a number of very small *inclusions* (3.10)

3.2.7

crystal

mineral crystal included in a diamond (3.1.1)

3.2.8

feather/fracture

separation or break due to either *cleavage* (3.2.5) or fracture, often white and feathery in appearance

3.2.9

grain centre

small area of concentrated *crystal* (3.2.7) structure distortion

3.2.10

internal graining

internal indications of irregular *crystal* (3.2.7) growth

3.2.10.1

coloured graining

graining which appears as coloured streaks

3.2.10.2

reflective graining

graining which appears as a reflective plane

3.2.10.3

whitish graining

graining which may appear as whitish streaks or may give the stone a hazy (cloudy) appearance which decreases transparency

3.2.11

indented natural

natural (3.3.6) that penetrates the stone

Note 1 to entry: Also to be considered as an external characteristic (see 3.3.15) depending upon depth.

3.2.12

knot

included diamond (3.1.1) crystal which reaches the surface FVIEW

3.2.13

(standards.iteh.ai) laser drilling

burning a channel with a laser between the surface of a diamond (3.1.1) and an inclusion (3.10) (generally black), the channel being used as a conduitto allowathemical treatment of the inclusion (3.10) with the purpose of making the inclusion (3110) dess visible ls/sist/d625a4fd-e4d4-48f2-b136-

4bd4d88303de/iso-24016-2020

3.2.14

needle

long, thin included *crystal* (3.2.7) which looks like a tiny rod

3.2.15

nick

minor damage, occurring along the girdle, the culet or facet edge, which does not significantly affect the outline of the stone

Note 1 to entry: Also to be considered as an external characteristic (see 3.3.7) depending upon depth.

3.2.16

pinpoint

very small *inclusion* (3.10); under 10x normally seen as a tiny dot, either singly or in groups or strings

3.2.17

reduced transparency

cloudy, milky, or hazy appearance of the whole or part of a diamond (3.1.1) due to internal features that may or may not be visible at 10x magnification

3.2.18

twinning wisp

inclusions (3.10) usually located in a plane, which occur as a result of the change in orientation of the diamond crystal structure

3.2.19

etch channel

high-temperature magma erodes the weak area of the *diamond* (3.1.1), leaving behind tubular traces extending from the surface to the inside, with a quadrangle opening

3.3 External characteristics

3.3.1

abrasion

tiny nicks (3.3.7) along facet junction's or culet, producing white fuzzy lines instead of sharp facet edges

3.3.2

bruting lines

tiny lines on a girdle not displaying a feather-like appearance

3.3.3

burn mark

surface clouding caused by excessive heat, or uneven polished surface

3.3.4

chip

damage, usually occurring along the girdle or culet, which alters the outline of the stone

Note 1 to entry: Also to be considered as an internal characteristic (see 3.2.4) depending upon depth.

3.3.5

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extra facet

facet located without regard for symmetry and not required by the cutting style

3.3.6

natural

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part of the original crystal (3.2.7) surface remaining on the polished stone

3.3.7

nick

minor damage, occurring along the girdle, the culet or facet edge, which does not significantly affect the outline of the stone

Note 1 to entry: Also to be considered as an internal characteristic (see 3.2.15) depending upon depth.

3.3.8

pit

tiny opening, often looking like a white dot

3.3.9

polish line

tiny parallel lines left by polishing; fine parallel ridges confined to single facet, caused by *crystal* (3.2.7) structure irregularities; or tiny, parallel, polished grooves produced by irregularities in the scarify surface

3.3.10

pitted girdle

very rough bruted girdle surface

3.3.11

scratch

linear indentation normally seen as a fine white line across a facet

3.3.12

surface grain line

surface indication of structural irregularity which is not seen internally; may resemble faint facetjunction lines, or cause a grooved or wavy surface; often the lines cross facet junctions

3.3.13

lizard skin

transparent concave wave texture on the surface of a polished diamond (3.1.1), usually parallel to the direction of the *cleavage* (3.2.5) surface

3.3.14

inscription

mark on the surface of or in a diamond (3.1.1)

3.3.15

indented natural

natural that penetrates the stone

Note 1 to entry: Also to be considered as an internal characteristic (see 3.2.11) depending upon depth.

3.4

naked eve

naked (unaided) eye, or visible to the eye through glasses adjusting an anomalous eyesight to normal

3.5

cut

shape (3.6), proportions, polish and symmetry of a diamond (3.1.1)

Note 1 to entry: The term finish encompasses polish and symmetry.

3.6

iTeh STANDARD PREVIEW shape/form

outline of a diamond (3.1.1) when viewed perpendicular to the table facet

diamond loupe

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achromatic and aplanatic, triplet type, 10x magnifying lens 4fd-e4d4-48f2-b136-

4bd4d88303de/iso-24016-2020 Note 1 to entry: The frame of the loupe shall be of a neutral 'colour'.

3.8

first generation masterstone

diamond (3.1.1) that has been selected by direct comparison with the relevant masterstone in the set of masterstones originally used to establish the D to Z grades, as specified in 6.1 and equal in hue, tone and saturation to the relevant original masterstone

second generation masterstone

diamond (3.1.1) that has been selected by direct comparison with the relevant first generation masterstone (3.8) and equal in hue, tone and saturation to the relevant first generation masterstone (3.8)

3.10

physical alteration to the interior of a *diamond* (3.1.1)

4 General

4.1 The use of the word "diamond"

It is unnecessary to note the genesis of a diamond, as the use of the word "diamond" alone and without qualification states that it is natural.

The word "diamond" alone shall not be used to describe synthetic diamonds no matter which basic material or methods are used. Products made in this way shall be clearly referred to as "synthetic diamond" and shall not be graded according to this document.

4.2 Composite stones/assembled stones

Composite stones/assembled stones shall be clearly identified and shall not be graded.

5 Mass and measurements

5.1 Mass

The mass of a diamond shall be expressed in metric carats (ct), one carat is equivalent to 200 mg (1/5 g). The mass of a diamond shall be stated in carats to two decimal places.

NOTE It is acceptable verbally to express one-hundredth of a carat as a "point".

Mass shall be rounded upwards if the third decimal is a 9.

EXAMPLES

- $-0,996 \rightarrow 0,99 ct$
- $-0.998 \rightarrow 0.99 \text{ ct}$
- $-0.999 \rightarrow 1.00 \text{ ct}$

Mass may be stated to three decimal places if the accuracy of the weighing equipment is accurate to this degree.

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5.2 Measurements

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The measurements of a diamond shall be expressed in millimetres to two decimal places.

The following measurements shall be contained in the diamond grading report (Clause 18):

- round shape: minimum diameter, maximum diameter and depth (total height);
- fancy shape: length, width and depth (total height). Length shall be the maximum measurement
 in the vertical line of the plotted diagram and width shall be the maximum measurement in the
 horizontal line of the plotted diagram.

6 Colour

6.1 General

Diamond colours shall be divided into the following three main categories (see 6.1.1, 6.1.2 and 6.1.3).

NOTE For all main categories (see <u>6.1.1</u>, <u>6.1.2</u> and <u>6.1.3</u>), photometric measurements intended for colour grade determination have no conclusive value at present.

6.1.1 Colourless to yellow, brown and grey (D to L)

The colour of diamond within the D to L grade range shall be determined by visual comparison with masterstones of first or second generation which is equal in hue, tone and saturation to the official CIBJO set of masterstones for determining the colour grades. The determination shall be carried out by a trained observer with normal eyesight (see 3.4) and colour discrimination, under an artificial light source, the specification for which ranges from D_{55} to D_{65} [International Commission on Illumination (CIE) standard illuminant].

The colour grade shall be described by the letter or letter range between D and L, (in capital letters) with or without the colour corresponding terms in <u>Tables 1</u> and <u>2</u>.

Colour comparison shall refer to masterstones of first or second generation.

NOTE Optionally the hue of a diamond when different than yellow can be mentioned in addition to the colour grade.

6.1.2 Colourless to yellow, brown and grey (M to Z)

Those colour grades are not currently covered by the present document.

6.1.3 Other hues

Apart from those diamonds referred to in 6.1.1 and 6.1.2 there are those diamonds that are darker in tone and/or higher in saturation than the Z colour grade and diamonds with other noticeable hues or tones and these are coloured diamonds. In this category, the specific term "fancy" shall precede the colour description of a coloured diamond.

6.2 Colour grades (colourless to yellow, brown and grey)

The colour grades that shall be used are given in <u>Table 1</u>. The German, French, Italian, Chinese and Scandinavian equivalent terms shall be as given in <u>Table 2</u>.

6.3 Colour grades (other than for yellow, brown and grey)

Diamonds with colours other than yellow, brown or grey, in which the colour is not visible in the faceup position, shall be graded in accordance with the colour grading scale (see <u>Table 1</u>). The grade shall be described either with the letter grade or by stating the term "faint" followed by the hue, or by both.

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 ${\bf Table~1-Colour~grading~scale}$

CIBJO The World Jewellery Confederation	GIA Gemological Institute of America	NOTES					
Exceptional white +	D	NOTE 1 For diamonds weighing under 0,47 ct, the grades D EW+ and E EW can be combined into one grade as Exceptional White or D-E.					
Exceptional white	Е						
Rare white +	F	NOTE 2 For diamonds weighing under 0,47 ct, the grades F RW+ a G RW can be combined into one grade as Rare White or F-G.					
Rare white	G						
White	Н						
Slightly tinted white	I	NOTE 3 Combined letter grades including and below I can be used.					
Slightly tinted white	J	NOTE 4 For grades I to J the term "equivalent colour grade" can be used in conjunction with the letter grade for those diamonds that have brown or grey present.					
Tinted white	К	NOTE 5 Combined letter grades including and below K can be used.					
Tinted white	L iTeh	NOTE 6 For grades K to L the term "equivalent colour grade" can be used in conjunction with the letter grade for those diamonds that have brown or grey present.					
Tinted	M N O P https://standar Q R S T U V W X Y Z	NOTE 8 Descriptions indicating the presence of brown or grey can be given for Grades M and below with or without using the letter grades if the hue / tone-description is prefixed with "light". ds.iteh.ai/catalog/standards/sist/d625a4fd-e4d4-48f2-b136-4bd4d88303de/iso-24016-2020					

Table 2 — Corresponding terms for colour grades

GIA a	CIBJO (The World Jewellery Confederation)							Chinese				
	English		German		French		Italian		national standard		Scan.D.N	
D	Exceptional white +	D	Hochfeines Weiss +	D	Blanc exceptionnel +	D	Bianco extra eccezionale +	D	D	100	River	D
Е	Exceptional white	Е	Hochfeines Weiss	Е	Blanc exceptionnel	Е	Bianco extra eccezionale	Е	Е	99	River	Е
F	Rare white +	F	Feines Weiss +	F	Blanc extra +	F	Bianco extra +	F	F	98	Top Wesselton	F
G	Rare white	G	Feines Weiss	G	Blanc extra	G	Bianco extra	G	G	97	Top Wesselton	G
Н	White	Н	Weiss	Н	Blanc	Н	Bianco	Н	Н	96	Wesselton	Н
I	Slightly tinted white +	I	Leicht getöntes Weiss +	I	Blanc nuance +	I	Bianco sfumato +	I	I	95	Top crystal	I
J	Slightly tinted white	J	Leicht getöntes Weiss	J	Blanc nuancé	J	Bianco sfumato	J	J	94	Crystal	J
K	Tinted white +	K	Getöntes Weiss +	K	Légèrement teinté +	K	Bianco leggermente colorito +	K	K	93	Тор саре	K
L	Tinted white	L	Getöntes Weiss	L	Légèrement teinté	L	Bianco leggermente colorito	L	L	92	Cape	L
M		M		M		M		M	M	91	Cape	M
N		N		N		N		N	N	90	Cape	N
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Q		Q		Q		Q		Q			Cape	Q
R		R	(sta	R	dards.it	eR	ı.ai)	R			Cape	R
S		S		S		S		S			Cape	S
T	Tinted	T	Getönt	Т	[Teinté 4016:2020	T	Colorito	T			Cape	Т
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V		V	4bd	4 d 8	8303de/iso-2401	6 ₩2	020	V			Cape	V
W		W		W		W		W			Cape	W
X		X		X		X		X			Cape	X
Y		Y		Y		Y		Y			Cape	Y
Z		Z		Z		Z		Z			Cape	Z
a Ge	emological Institu	ite of A	merica.									

6.4 Fluorescence

The fluorescence of diamond shall be determined by visual comparison with masterstones of first or second generation which is equal in hue and degree to the official CIBJO set of masterstones for determining the fluorescence. The determination shall be carried out by a trained observer with normal eyesight (see 3.4) and colour discrimination.

The degree of fluorescence shall be characterized in accordance with <u>Table 3</u>.

Table 3 — Description of degree of fluorescence

Degree of fluorescence	Colour of fluorescence
none or nil	optional
faint or slight	optional
medium	optional
strong	optional

The colour of fluorescence may be mentioned together with the degree of fluorescence.