



TWF/42/16

ORIGINAL: English

DATE: August 29 2011

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

TECHNICAL WORKING PARTY FOR FRUIT CROPS

Forty-Second Session
Hiroshima, Japan
November 14 to 18, 2011

REVISION OF DOCUMENT TGP/14:
NEW SECTION FOR COLOR CHARACTERISTICS

*Document prepared by the Office of the Union
(containing proposal prepared by experts from the European Union, Germany
and the Netherlands)*

1. The purpose of this document is to present a draft Subsection on color for inclusion in document TGP/14 "Glossary of Terms Used in UPOV Documents", as prepared by experts from the European Union, Germany and the Netherlands.
2. The draft Subsection on color for inclusion in document TGP/14, as prepared by experts from the European Union, Germany and the Netherlands, is presented in the Annex to this document.

COMMENTS BY THE TECHNICAL WORKING PARTIES

Technical Working Party for Agricultural Crops3
Technical Working Party on Automation and Computer Programs.....3
Technical Working Party for Vegetables.....3
Technical Working Party for Ornamental Plants and Forest Trees / Technical Working Party for Fruit Crops.....4

ANNEX: DRAFT DOCUMENT TGP/14 “GLOSSARY OF TERMS USED IN UPOV DOCUMENTS”,

Section 2: Botanical Terms, Subsection 3: Color

3. The following abbreviations are used in this document:

- CAJ: Administrative and Legal Committee
- TC: Technical Committee
- TC-EDC: Enlarged Editorial Committee
- TWA: Technical Working Party for Agricultural Crops
- TWC: Technical Working Party on Automation and Computer Programs
- TWF: Technical Working Party for Fruit Crops
- TWO: Technical Working Party for Ornamental Plants and Forest Trees
- TWV: Technical Working Party for Vegetables
- TWPs: Technical Working Parties

BACKGROUND

4. At their sessions in 2010, the Technical Working Parties considered documents: TWA/39/23, TWC/28/23, TWV/44/23, TWO/43/23 rev., TWF/41/23.

The following comments on the Annex to the draft subsection on color were made by the Technical Working Parties (TWPs).

Technical Working Party for Agricultural Crops

5. At its thirty-ninth session, held in Osijek, Croatia, from May 24 to 28, 2010, the Technical Working Party for Agricultural Crops (TWA) considered document TWA/39/23 (see document TWA/39/27 “Report”, paragraphs 68 and 71). The TWA agreed that the TWO and TWF should be invited to consider how and where to provide guidance on the use of the RHS Colour Chart for assessing distinctness.

Technical Working Party on Automation and Computer Programs

6. The Technical Working Party on Automation and Computer Programs (TWC), at its twenty-eighth session, held in Angers, France, from June 29 to July 2, 2010, considered document TWC/28/23 and made the following comments (see document TWC/28/36 “Report”, paragraph 48):

<u>PART II: COLOR</u>	
2.1 Components of Color	to be amended to explain that, as and where appropriate, UPOV Test Guidelines may use a characteristic to describe “color” in relation to hue, saturation and brightness (three dimensions), but may also, for example, develop separate characteristics for “color” in two dimensions and a separate characteristic for “intensity of color”.
<u>PART III: COLOR DISTRIBUTION / PATTERN</u>	
3.1 General: The use of Number of Colors	<ul style="list-style-type: none"> - to indicate the difficulties in obtaining an objective and consistent assessment of number of colors - to delete “does not” at end of paragraph

Technical Working Party for Vegetables

7. The Technical Working Party for Vegetables (TWV), at its forty-fourth session, held in Veliko Tarnovo, Bulgaria, from July 5 to 9, 2010, agreed that it would be better to consider the draft “New section for color characteristics” after the Technical Working Party for Ornamental Plants and Forest Trees (TWO) and Technical Working Party for Fruit Crops (TWF) had had an initial discussion on the draft at their sessions in 2010 (see document TWV/44/34 “Report”, paragraph 61).

Technical Working Party for Ornamental Plants and Forest Trees / Technical Working Party for Fruit Crops

8. The following table combines the comments of the TWO, at its forty-third session, held in Cuernavaca, Morelos State, Mexico, from September 20 to 24, 2010 (see document TWO/43/29 Rev. "Report", paragraph 53) and the TWF at its forty-first session, held in Cuernavaca, Morelos State, Mexico, from September 27 to October 1, 2010 (see document TWF/41/30 Rev. "Report", paragraph 58):

<u>PART II: COLOR</u>	
2.1	(TWO, TWF) to be deleted
2.2	(TWO) to add (e) Color Chart (TWF) to add (e) Color Chart and to check whether it should refer to RHS Colour Chart
2.3	(TWO, TWF) to have the header "States of expression for color characteristics" and to provide an explanation for each of the aspects in 2.2 (a) to (e), in that order, on the basis of the information currently provided in 2.3
2.4	(TWO, TWF) to be incorporated within new Section 2.3 "States of expression for color characteristics"
2.4.1.1.3	(TWO, TWF) to delete text in brackets after "RHS 11D – light yellow orange"
<u>PART III: COLOR DISTRIBUTION / PATTERN</u>	
General	(TWO, TWF) to structure the section on the basis of the approaches to describe colors and color patterns, as set out in the document, including in particular: Main color / secondary color etc. (surface area) Main color / over patterns Ground color / over color, flush or blush RHS Colour Chart order ("Lisbon" approach) Color of defined parts of an organ Variegation Pigments (anthocyanin, carotenoid) Conspicuousness Color change over time Number of colors (if retained) and to provide illustrative examples for each approach (TWF) The TWF agreed that Mr. Chris Barnaby (New Zealand) should be invited to draft guidance on criteria to be considered for selecting the most appropriate approach.
3.1	(TWO, TWF) to review whether to discourage the use of a characteristic for number of colors
4.2.3	(TWO, TWF) to check whether these terms are useful for any of the approaches to be included in the document

4.5.2	(TWO, TWF) to base this section on the Japanese scheme for determining color pattern terms (document TWO/43/23 Rev., Annex II), but to include only those patterns that are named and currently included in Section 4.5.2
4.6	(TWO, TWF) to improve the illustration for “Tesselate”
4.8	(TWO, TWF) to be deleted
4.11.4	(TWO, TWF) to check whether to delete

9. The Technical Committee, at its forty-seventh session held in Geneva from April 4 to 6, 2011, noted that a new draft Subsection on color would be considered further by the Technical Working Parties at their sessions in 2011, with a view to inclusion in a future revision of document TGP/14 (see document TC/47/26 “Report on the Conclusions”, paragraph 85).

Comments of the Technical Working Parties at their sessions in 2011

10. At its fortieth session, held in Brasilia, Brazil, from May 16 to 20, 2011, the Technical Working Party for Agricultural Crops (TWA) considered document TWA/40/16 Rev. With regard to “Section 2: Botanical Terms, Subsection 3: Color”, contained in the Annex to document TWA/40/16 Rev., the TWA recommended that the new proposal for subsection 3.2.5 “Variegation” be redrafted to avoid the impression that variegation is only limited to white and yellow color (see document TWA/40/23 “Report”, paragraph 40).

11. The Technical Working Party on Automation and Computer Programs (TWC), at its twenty-ninth session, held in Geneva, Switzerland, from June 7 to 10, 2011, considered document TWC/29/16.

12. The TWC noted that different color groups, as established in Section 3 of Annex I of document TWC/29/16, were not created for the purpose of grouping varieties for DUS trials and should not be used for that purpose.

13. The TWC agreed to invite papers on how information on colors is used for DUS examination for presentation at the next session of the TWC and to inform other Technical Working Parties.

14. The TWC agreed the following changes to the Annex to document TWC/29/16:

Section 4.3.2 The proposal from New Zealand to read as follows:

Dotted:	Having clear, regular, very small spots
Patched:	Having clear, irregular, medium spots
Blotched:	Having clear, irregular, large spots
Flecked:	Having diffuse, irregular, small spots
Speckled:	Having diffuse, irregular, medium spots
Mottled:	Having diffuse, irregular, large spots

Appendix I and To exchange titles

Appendix II

Annex II
“Pattern” To have “Positional” in one line
To read: “Width”
To replace “Positional” with “Alignment”

Annex II
“Distribution” Example 1: To read “Marginal Zone”
Example 3: Patch: To read “Spotted”

(See document TWC/29/31 “Report”, paragraphs 42, 43 and 44.)

15. At its forty-seventh session, held in Monterey, United States of America, from July 25 to 29, 2011, the Technical Working Party for Vegetables (TWV) considered that the new section for color characteristics should include guidance that the Test Guidelines should provide an explanation of the use of color terms that did not follow generally accepted rules, e.g. the use of “red” in onion for “purple” colors.

[Annex follows]

TWF/42/16: Annex
TGP/14: Subsection 3: Color

ANNEX I

DRAFT 8

DOCUMENT TGP/14

**“GLOSSARY OF TECHNICAL, BOTANICAL AND STATISTICAL TERMS
USED IN UPOV DOCUMENTS”**

Section 2: Botanical Terms

Subsection 3: Color

Document prepared by experts from the European Community, Germany and the Netherlands

TABLE OF CONTENTS

(NOTE: Will be updated once subgroup has discussed the draft)

PAGE

<u>SUBSECTION 3: COLOR</u>	4
<u>PART I: INTRODUCTION</u>	4
1. The purpose of this document is:	4
<u>PART II: COLOR</u>	4
2.1 Terms used for color	4
2.2 States of expression for color characteristics	4
2.2.1 Single color	4
2.2.2 Color combinations	4
2.2.3 Intensity	5
2.2.4 Color Chart	5
2.3 Observation	5
2.4 Developing characteristics	6
2.4.1 Type of expression	6
2.4.1.1 Examples	6
2.4.2 Order of states of expression	6
2.5 Unsuitable color names	6
2.6 Timing of observations	7
2.7 Organ elements that may distort color	7
<u>PART III: APPROACHES TO DESCRIBE COLORS AND COLOR PATTERNS</u>	7
3.1 General: The use of number of colors	7
3.2 Approaches to describe colors and color patterns	7
3.2.1 Main color / secondary color	8
3.2.2 Ground color / over color	8
3.2.3 Colors of defined parts of an organ	8
3.2.4 Order of observation of colors based upon the RHS Colour Chart number of the color in question ("Lisbon" approach)	9
3.2.5 Variegation	10
3.2.6 Pigments (anthocyanin, carotenoid)	10
3.2.7 Conspicuousness	11
3.2.8 Color change over time	11
3.2 Guidance for deciding which approach to use for the description of colors and color patterns	11
<u>PART IV: COLOR DISTRIBUTION AND COLOR PATTERNS</u>	12
4.1 Color distribution	12
4.2 Terms used for color distribution	12
4.2.1 Main / Secondary / Tertiary Color (see also chapter 3.2.1)	12
4.3 Terms used for Color Patterns	12
4.3.1 Flush / Blush	12
4.3.2 Spotted / Dotted / Patched / Blotched / Speckled / Mottled	12
4.3.3 Aciculate / Striated / Striped / Banded	13
4.3.4 Along Midrib / Banded / Central Band / Central Bar	13
4.3.5 On Margin / Picotee / Marginal Zone	13
4.3.6 Tessellate / Netted / Marbled / Veined	14
4.4 The use of photographs to illustrate color distribution and color patterns	14
4.5 Illustrations	14
4.5.1 Color Patterns	14
4.5.1.1 Flush / Blush	14
4.5.1.2 Dotted / Spotted / Patched / Blotched / Flecked / Speckled / Mottled according to the proposal of NZ	15
4.5.1.3 Aciculate / Striated / Striped / Banded	15
4.5.1.4 Along Midrib / Central Band / Central Bar	16
4.5.1.5 On Margin / Picotee / Marginal Zone	16
4.5.1.6 Tessellate / Netted / Marbled / Veined	16
4.5.1.7 Variegation	16
4.5.2 Color distribution	17

<u>PART V: INDEX OF DEFINITIONS</u>	17
<u>PART VI: LITERATURE</u>	18

SUBSECTION 3: COLOR

PART I: INTRODUCTION

1. The purpose of this document is:
 - (a) To provide guidance on the development of characteristics related to colors and color patterns;
 - (b) To provide standard illustrations and examples in relation to colors and color patterns which may be useful for inclusion in the Test Guidelines, whilst noting that illustrations for specific characteristics can be found in the relevant Test Guidelines and noting that searches for relevant individual characteristics can be made through TGP/7 “Collection of Approved Characteristics”; and
 - (c) To provide definitions of botanical terms with an indication of whether those terms are generally used in Test Guidelines, or whether alternative terms might be more appropriate for use in Test Guidelines.

PART II: COLOR

2.1 Terms used for color

There are various forms in which color may be presented as states of expression in the Test Guidelines:

- (a) Single color
- (b) Color combinations
- (c) Intensity
- (d) RHS Colour Chart

2.2 States of expression for color characteristics

2.2.1 Single color

Only one color present

Flower: main color: white (1); yellow (2); orange (3); red (4)

2.2.2 Color combinations

- (a) The second color indicates the predominant color with blending of both colors, resulting in what can look like a single color. For example in “green red” the predominant color is red and in “red green” the predominant color is green. *Flower: main color: white (1); yellow white (2); yellow (3); yellow orange (4); orange (5)*
- (b) In some combinations the use of "ish" is common and indicates that there is a predominant color (e.g. yellow) but in addition indicates the presence of another minor color. For example,

<i>yellowish</i> ,	covers all colors which are predominantly yellow (would include, for example, white yellow; brown yellow; orange yellow; etc.)
<i>yellowish green</i>	covers all colors which are predominantly green with some yellow (would include, for example, white yellow green; brown yellow green; orange yellow green etc.)
<i>Flower: main color:</i>	<i>whitish (1); yellowish (2); greenish (3)</i>

2.2.3 Intensity

The intensity can be presented in combination with the color

Flower: main color: white (1); light yellow (2); medium yellow (3); dark yellow (4); orange (5)

2.2.4 Color Chart

Because of its worldwide availability, UPOV uses the color chart from the Royal Horticultural Society (RHS), the “RHS Colour Chart”. There are 5 editions of this color chart, dating from 1966, 1986, 1995, 2001 and 2007. Since 2005, the “RHS Mini Colour Chart” has also been published by the Flower Council Holland and is also frequently used by breeders. Other color charts might also be appropriate.

Document TGP/7 “Development of Test Guidelines” (see ASW 4(2)(d)) explains that “Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background”. When it is not possible to make observations under artificial daylight, for example when observations have to be made in the open, observations should not be made in direct sunlight. The observations should be made on a cloudy day with sufficient light intensity, or in a shaded area. When artificial shading is needed in the open, it should be ensured that the color of the shading cloth does not interfere with the observations.

When using the RHS Colour Chart, the reference number of the RHS color, the color name and the edition of the chart should be mentioned in the variety description. A proposal for naming the colors has been made in ANNEX I of this document.

2.3 Observation

It is not always necessary, or even possible, to make color observations with the help of a color chart. Some examples where the use of a color chart is less useful are:

- (a) in cases where the intensity of a color is observed (e.g. intensity of green color: light - medium - dark);
- (b) where the size of the color surface or amount of color is very small;
- (c) where only limited, clearly separated, color expressions are present;
- (d) where other elements influence the observation of color (e.g. where the surface is covered with hairs or with a waxy layer);
- (e) where colors are blended;
- (f) where colors are not well represented on the color chart (e.g. greens, browns, dark intensities of some colors);

(g) where an overall color impression is required.

2.4 Developing characteristics

2.4.1 Type of expression

Color is complex and can be defined in terms of 3 main elements: hue, saturation and intensity. Therefore, any characteristic which combines more than one of those elements is likely to constitute a pseudo-qualitative characteristic. However, in some cases it may be appropriate to consider one of the elements as a quantitative characteristic. For example, the intensity of green color can be considered as a quantitative characteristic, with the states light, medium and dark. Where there is a clear discontinuity between color states (e.g. white and red), a qualitative characteristic is indicated.

2.4.1.1 Examples

2.4.1.1.1 Qualitative characteristics

Stem: color: green (1); red (2)

2.4.1.1.2 Quantitative characteristics

Leaf: intensity of green color: light (3); medium (5); dark (7)

2.4.1.1.3 Pseudo-Qualitative characteristics

(i) Single colors

Flower: main color: white (1); yellow (2); orange (3); red (4)

(ii) Single colors and intensity

Flower: main color: white (1); light yellow (2); medium yellow (3); dark yellow (4); orange (5)

(iii) Color combination

Flower: main color: white (1); yellow white (2); yellow (3); yellow orange(4); orange (5)

Spathe: color of apex: whitish (1); yellowish (2); greenish (3)

(iv) Color chart

Flower: main color: RHS Colour Chart (indicate reference number)

⇒ *variety description: RHS 11D – light yellow orange*

2.4.2 Order of states of expression

In the Test Guidelines, the states of expression for colors are normally presented in the following order: white, green, yellow, orange, pink, red, purple, violet, blue, brown, black. (note: it is quite common to have the order white, yellow, green where only those colors occur). However, the chronological appearance of the color (e.g. as the fruit ripens) may also be used (see also documents TGP/14/1 “Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents” [*cross ref.*]) where appropriate. The same sequence should normally be used for organs with similar states within the same Test Guidelines (e.g. color of leaf and color of the stem).

2.5 Unsuitable color names

Color terms such as “bronze”, “fuchsia”, “gold”, “ochre”, “salmon”, “silver”, etc. should not be used as states of expression in the Test Guidelines because they could cause

confusion concerning the intended color. Therefore, these terms should be replaced by standard colors (e.g. orange brown instead of bronze). However, where these terms are intended to cover a wide range of colors and where those colors do not overlap with the colors in any other states of expression, they could be used in the Test Guidelines. For example: the use of “salmon” to cover all colors between pink and brown, where the only other possible colors are white and green.

Example: Flower: Pistil: Main color: white (1); green (2); salmon (3)

2.6 Timing of observations

2.6.1 All color observations on the different organs of the plant should be made at a clearly defined stage of development of the organ. Color expression of the organ might change, for example, during development or aging of the plant/organ or the time of the day.

2.6.2 In cases where the color of an organ, or part of an organ, changes during the development of the plant, it may be appropriate to have separate characteristics for the color at appropriate, clearly defined stages of development. In some cases, it may also be appropriate to have a characteristic which describes the rate at which the color changes.

2.7 Organ elements that may distort color

The observation of color on a surface or whole organ can be distorted by the presence of glaucosity or hair. The characteristic should make it clear whether or not the overall color is observed or the color surface after the glaucosity or hair has been removed.

Example: Fruit: color of skin (hair removed)
Leaf: color of upper side (wax removed)

PART III: APPROACHES TO DESCRIBE COLORS AND COLOR PATTERNS

3.1 General: The use of number of colors

A characteristic for number of colors of a plant part should be indicated as pseudo-qualitative because there is always the risk that a person may consider hues of a color to be a different color therefore record them as additional colors while another person may not does not.

3.2 Approaches to describe colors and color patterns

- (a) Main color / secondary color
- (b) Ground color / over color
- (c) Colors of defined parts of an organ
- (d) RHS Colour Chart order (“Lisbon” approach)
- (e) Variegation
- (f) Pigments (anthocyanin, carotenoid)
- (g) Conspicuousness
- (h) Color change over time

3.2.1 Main color / secondary color

In this approach all colors of a plant part are determined according to the size of the surface area they occupy. The color with the largest surface area is the main color; the one with the second largest area is the secondary color and so on.

The following standard explanation should be included in the Test Guidelines when using this approach for describing color:

“The main color is the color which has a continuous dispersion across the surface of the plant part; in general and will also cover the largest surface area.”

The term “MAIN COLOR” should only be used in association with a clearly identifiable color; one with a continuous distribution across the relevant plant part, without consideration of other colors present as isolated spots, patches etc.

3.2.2 Ground color / over color

For organs which have two independent layers of tissue containing color pigmentation (e.g. apple), the two layers could be described as follows:

(a) **GROUND COLOR:** The first color to appear chronologically during the development of the plant part. Other colors may develop in time in the form of spots, blotches, or a color flush or blush. The ground color is not always the color occupying the largest surface area of the plant part concerned. The ground color can be the main color of the lower side of an organ.

(b) **OVER COLOR:** In the case of a plant part which has a ground color upon which a second color such as a flush develops over time, the flush is considered the over color. The over color is not always the color occupying the smallest surface area of the plant part concerned.

3.2.3 Colors of defined parts of an organ

(a) When an organ has one color with different intensities, the parts of the organ which are lighter or darker should be described.

Example:

1. **Only varieties with one color :**
Ray floret: color distribution on upper side

PQ	lighter towards base	1
	even	2
	lighter towards apex	3

(b) If the different parts of a plant organ can have different colors, the color of these different parts can be described separately. If for example the petals of some

varieties have a differently colored margin the color of the margin should be described and the color of the rest of the petal.

Example: Petal: color of margin, Petal: color of middle zone, Petal: color of base

3.2.4 Order of observation of colors based upon the RHS Colour Chart number of the color in question ("Lisbon" approach)

In this approach all colors of the plant part concerned are assessed using the RHS Colour Charts first. The colors are then ordered from the lowest to highest number according to the color number from the Colour Chart, with the lowest number being RHS 1 A and the highest number being RHS 203 D. With this approach the determination of color is made without consideration of the surface area occupied by that color.

The following standard explanation should be included in the Test Guidelines when using this approach for describing color:

The order of colors follows the RHS Colour Chart order. The lowest number is RHS 1A and the highest RHS 203D.

The color should first be described, followed by characteristics explaining the area, distribution, pattern and conspicuousness of the color.

The same sequence should be followed for color two, color three and so on. In order to make it clear that a variety does not show color two, color three and so on, the state of expression 'none' (1) should be added as an option to the characteristic.

Example:

1.	Leaf blade : secondary color	
PQ	RHS Colour Chart (indicates reference number)	
2.	Leaf blade: secondary color: distribution	
PQ	none	1
	on veins	2
	along veins	3
	at marginal zone	4
3.	Leaf blade: secondary color: pattern	
PQ	speckled	1
	blotched	2
	throughout	3

3.2.5 Variegation

Variegation: Well defined areas of different colors or intensities, with less or no chlorophyll, especially as yellow or white longitudinal stripes or irregular shaped areas or marginal zone combined with a green color on leaves.

New proposal to be discussed:
"Variegation" is the term for white or yellow colored zones on the leaf with diminished or no chlorophyll. These zones can have different shapes; they occur as longitudinal stripes, as irregularly shaped areas or along the margin of a leaf. They are contrasting with the usual green color of the leaf.

3.2.6 Pigments (anthocyanin, carotenoid)

Color pigments like anthocyanin usually can be found on a plant organ or part of an organ in the form of an over color. Depending on the amount and intensity of the pigments it could be useful to describe the color of the organ with or without the pigments. If the pigments should be excluded from the observation it should be indicated in the characteristic (e.g. Leaf blade: color (excluding anthocyanin)).

When the name of the pigment is known, reference should be made to the name, e.g. "anthocyanin coloration". Where the name of the pigment is not known, the color should be mentioned, e.g. "red coloration".

Pigments can be described using intensity and /or size of their distribution. Usually the intensity is a QN characteristic.

Example:

1.	Leaf blade : anthocyanin coloration	
QN	weak	3
	medium	5
	strong	7

The distribution of the pigment is usually a PQ characteristic, e.g.,

2.	Leaf blade : distribution of anthocyanin coloration	
PQ	at margin	1
	along veins	2
	at base	3

3.2.7 Conspicuousness

CONSPICUOUS: clearly visible, evident.

INCONSPICUOUS: not clearly visible, obscure.

Additional notes in relation to conspicuousness observations:

In some cases conspicuousness could be difficult to be observed, for instance for small organs (e.g. veins, hairs), or because they are not consistently expressed across the organ.

To make clear what is meant with the term conspicuousness the following standard wording could be used in the TG:

(a) The conspicuousness is determined by the color contrast

(b) The conspicuousness is determined by the color contrast combined with size.

3.2.8 Color change over time

When a plant organ changes the color over time it might be necessary to observe the same organ at different times of its development.

Example:

1.	Fruit : color (before maturity)	
PQ	greenish white	1
	yellow	2
	green	3
	purple	4

2.	Fruit: color (at maturity)	
PQ	yellow	1
	orange	2
	red	3
	brown	4
	green	5

3.2 Guidance for deciding which approach to use for the description of colors and color patterns

The decision on which approach to use describing the colors of a plant part depends on the number of colors, types of color distribution and color patterns which are possible for the species concerned.

In situations on where only a few colors, a few types of color distribution and a color few patterns need to be described, it would be more appropriate to use approach (a) Main color / secondary color (see 3.2.1). For more complex situations where several different colors and/or several different types of color distribution and color patterns are possible, it would be more appropriate to use approach (d) RHS Colour Chart order ("Lisbon" approach

(see 3.2.4)). A good example of the use of approach (a) can be found in the Alstroemeria Test Guideline (TG/29/7), an example for approach (d) can be found in the Heuchera Test Guideline (TG/HEUCH(proj.2)).

PART IV: COLOR DISTRIBUTION AND COLOR PATTERNS

4.1 Color distribution

There are two ways of describing the distribution of color:

- (a) descriptive approach: for example, at margin, at distal part, etc.
- (b) systematic approach

4.2 Terms used for color distribution

The following sets of terms can be used to describe the distribution of color.

4.2.1 Main / Secondary / Tertiary Color (see also chapter 3.2.1)

- (a) **MAIN COLOR:** color of the largest surface area of the plant part.
- (b) **SECONDARY COLOR:** when more than one color is present, the color covering the second largest surface area of the plant part is the secondary color.
- (c) **TERTIARY COLOR:** when more than two colors are present, the color covering the third largest area of the plant part is the tertiary color.

The following standard wording could be used in the TG:

The main color is the color with largest surface area, the secondary color (if present) is the color with the second largest surface area. If the area of the colors is nearly half and half, the darker color is the main color.

4.3. Terms used for Color Patterns

A schematic illustration of the different color patterns can be found in ANNEX II.

4.3.1 Flush / Blush

- (a) **FLUSH:** different color hue as a faint layer over the ground color of a surface
- (b) **BLUSH:** special case of FLUSH where the color of the layer over the ground color of the surface is reddish, pinkish or purplish.

4.3.2 Spotted / Dotted / Patched / Blotched / Speckled / Mottled

- (a) **SPOTTED:** with other color as sharply outlined spots (round or nearly round contour). Compare to “dotted”, where the spots are smaller;
- (b) **DOTTED:** finely spotted, if made with a pen. Compare to “spotted”, where the spots are larger and “patched”, where the spots are irregular;
- (c) **PATCHED:** with small irregular spots that have another color. Compare to “dotted”, “spotted” and “blotched”;
- (d) **BLOTCHED:** with sharply outlined irregular large spots. Compare to “spotted”, where the spots are regular, “mottled”, where the blotches are not sharply outlined and “speckled” where the spots are irregular, but smaller;

- (e) FLECKED: with sharply outlined irregular large and small markings.
- (f) SPECKLED: with many small spots, patches (irregular contour) or flecks (irregular spot, usually longer than broad);
- (g) MOTTLED: with other color as blotches which are not sharply outlined. Compare to “spotted” and “blotched”, which are sharply outlined and to “blotched” where the spots are irregular, but larger.

New proposal of NZ, definitions to be discussed:

DOT: A CLEAR, REGULAR, VERY SMALL SPOT

PATCHED: A CLEAR, IRREGULAR, MEDIUM SPOT

BLOTCHED: A CLEAR, IRREGULAR, LARGE SPOT

FLECK: A DIFFUSE, IRREGULAR, SMALL SPOT

SPECKLE: A DIFFUSE, IRREGULAR, MEDIUM SPOT

MOTTLED: A DIFFUSE, IRREGULAR, LARGE SPOT

4.3.3 Aciculate / Striated / Striped / Banded

- (a) ACICULATE: with another color as fine, straight stripes, lying in different directions.
- (b) STRIATED: finely striped: with another color as fine, more or less parallel fine stripes.
- (c) STRIPED: with another color as more or less parallel stripes of medium width.
- (d) BANDED: broadly striped: with another color as broad, more or less parallel stripes. Compare to “striped” (narrower) and “striated” (much finer).

4.3.4 Along Midrib / Banded / Central Band / Central Bar

- (a) ALONG MIDRIB: with other color on or around the central vein (synonym MAIN VEIN for monocotyledonous plants). Compare to “central bar” where the zone with another color is broader.
- (b) CENTRAL BAND: with another color as a horizontal band at the central part of the organ. Compare to “central bar” which is vertical.
- (c) CENTRAL BAR: with another color as a vertical bar at the central part of the organ. Compare to “along midrib”, which is usually narrower and “central band” which is horizontal.

4.3.5 On Margin / Picotee / Marginal Zone

- (a) ON MARGIN/EDGED: different color around the margin of an organ. Compare to “marginal zone” where the zone with another color is broader.
- (b) PICOTEE: flower characteristic, special form of ON MARGIN/EDGED, where the colored margin is narrow and has a contrasting color compared to the rest of the flower.

(c) **MARGINAL ZONE:** with another color on the marginal zone (see also ON MARGIN/EDGED and PICOTEE). Compare to “on margin/edged” where the zone with another color is narrower.

4.3.6 Tessellate / Netted / Marbled / Veined

- (a) **TESSELATE:** pattern that lies over the main color with no overlaps or gaps.
- (b) **NETTED:** with another color as in the form of a net over the surface of the plant part.
- (c) **MARBLED:** resembling marble in color pattern.
- (d) **VEINED:** different color of veins compared to the rest of the organ.

4.4 The use of photographs to illustrate color distribution and color patterns

For all mentioned approaches it could be useful to recommend that a photograph be taken to illustrate certain color characteristics. It is recommended that a disclaimer be included in the Test Guideline to clarify the purpose for which the photograph is to be used; i.e. to illustrate number of colors, types of color distribution and/or color patterns, rather than the actual colors of the plant part concerned.

“A photograph of the [relevant plant part] could be provided in conjunction with the description in order to clarify the color distribution and/or color pattern. However, a warning should be added to this photograph, explaining that the primary intent of the photograph is to show the distribution and/or pattern of colors on the plant part rather than the actual colors. Color on photographs can be affected by the technology of the camera and the facilities used to display the photograph (printer, overhead projector, etc.).”

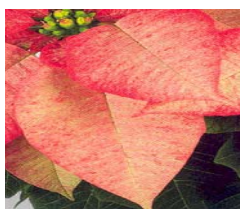
4.5 Illustrations

4.5.1 Color Patterns

4.5.1.1 Flush / Blush










FLUSH

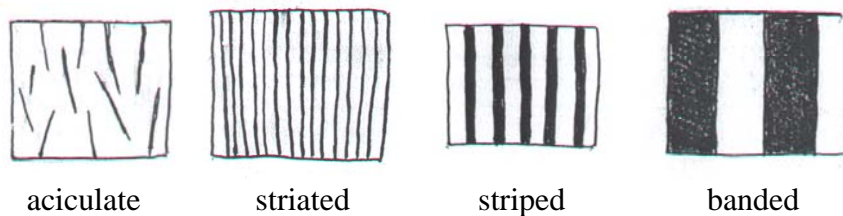


BLUSH

4.5.1.2 Dotted / Spotted / Patched / Blotched / Flecked / Speckled / Mottled
 according to the proposal of NZ

OUTLINE/ SIZE	CLEAR REGULAR	CLEAR IRREGULAR	DIFFUSE IRREGULAR
SMALL			
	DOTTED		FLECKED
MEDIUM			
	SPOTTED	PATCHED	SPECKLED
LARGE			
		BLOTCHED	MOTTLED

4.5.1.3 Aciculate / Striated / Striped / Banded



4.5.1.4 Along Midrib / Central Band / Central Bar



along midrib



central band



central bar

new proposal: transverse band

4.5.1.5 On Margin / Picotee / Marginal Zone



on margin (edged)



picotee

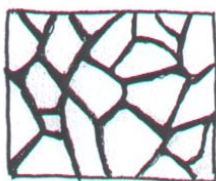


marginal zone

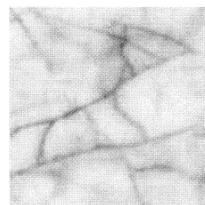
4.5.1.6 Tessellate / Netted / Marbled / Veined



tessellate



netted



marbled



veined

4.5.1.7 Variegation



**ON
MARGIN**



**ALONG
MIDRIB**

4.5.2 Color distribution

Note: distribution could be described by a combination of terms from the different sets using the words “and” or “excluding”

e.g. (a) distal quarter, excluding marginal zone, (b) distal half, excluding tip, etc.



**AT
BASE**



**BASAL
QUARTER**



**BASAL
HALF**



**BASAL
THREE
QUARTERS**



AT TIP



**DISTAL
QUARTER**



**DISTAL
HALF**



**DISTAL
THREE
QUARTERS**



CENTRAL



TRANSVERSE



**AT
MARGIN**



THROUGHOUT

PART V: INDEX OF DEFINITIONS

Note: A single list (index) for Technical terms (e.g. “distinctness”, “uniformity”, “variety” etc.), Botanical terms (shapes, colors etc.) and Statistical terms to be provided at the end of TGP/14. In that list, it will be indicated in which section to find an explanation of that term.

(to be provided for:)

Aciculate

Anthocyanin coloration

Banded

Blotched
Blush
Central Band
Central Bar
Color
Conspicuous
Dotted
Edged
Fleck
Flush
Glaucosity
Ground color
Inconspicuous
Main color
Main vein
Marbled
Marginal zone
Midrib
Mottled
Netted
On margin
Over color
Patched
Picotee
RHS Colour Chart
RHS Mini Colour Chart
Secondary color
Speckled
Spotted
Striated
Striped
Tertiary color
Tessellated
Variegation
Veined
Waxy layer

PART VI: LITERATURE

RHS Colour Chart, 2007, Royal Horticultural Society, London, UK

RHS Mini Colour Chart, 2005, Royal Horticultural Society, London, UK, published together with the Flower Council Holland, Leiden, NL.

Horticultural Colour Chart (HCC Chart), 1942, R.F. Wilson, Published by the British Colour Council in collaboration with the Royal Horticultural Society.

International Commission on Illumination C.I.E./USA: ISO 15469:2004/CIE S 011/E:2003, Spatial distribution of daylight – CIE standard general sky

Rochester Institute of Technology: Munsell Color Science Laboratory; website: <http://mcs.l.rit.ed>

ANNEX I

Color names for the RHS Colour Chart

1. Introduction

1.1 When using the RHS Colour Chart, the variety description should contain both the RHS Colour Chart reference number and a name for the color. The purpose of this document is to harmonize color names for variety descriptions.

1.2 The RHS Colour Chart contains up to 884 different colors, which are divided into 23 “groups” to name the colors. However, for UPOV purposes, this initial grouping seemed unable to name the colors in variety descriptions in a sufficiently precise way. Therefore, UPOV has identified 50 color “groups” which are presented in this document. It is important to note that these color “groups” were not created for the purpose of grouping varieties for DUS trials and should not be used for that purpose.

1.3 The names used for the 50 UPOV Color Groups consist of either the [pure color] / [color hue] (e.g. yellow, orange, red), a combination of two [pure colors] / [color hues] (e.g. yellow orange, orange pink, purple red), or a combination of the [pure color(s)] / [color hue(s)] with “light” or “dark” (e.g. light yellow, dark pink red).

1.4 The color names in this document can be used with different editions of the RHS Colour Chart. The 1986 version of the RHS Colour Chart was used for the initial grouping and naming. In the 1995 edition no new charts were added. The additional charts in the 2001 edition (marked with “N”) have been integrated into the existing groups.

2. Example for the use of the UPOV Color Names in a variety description

2.1 If in Test Guidelines a characteristic is described by using the RHS Colour Chart, it is not obvious which color the plant part has, because it is only asked to indicate the RHS Colour Chart reference number, e.g.

Flower: main color of upper side RHS Colour Chart (indicate reference number)

2.2 For the variety description, it is useful to translate the RHS Colour Chart number into a color name and to fill this name into the column “state of expression”. The color name can be found in the appendix to this document, in which the RHS Colors are listed according to the UPOV Color Group to which they belong: e.g. RHS 46C belongs to group 21 “red”, RHS N 74B belongs to group 27 “purple” and RHS N 57A belongs to group 23 “purple red”.

Example:

2.3 Part of a variety description for New Guinea Impatiens (TG/196/1)

No.	Characteristic	State of expression		Note
20	Flower: main colour of upper side	red	RHS 46C	
21	<u>Varieties with bi- or multicoloured flowers only:</u> Flower: secondary colour of upper side	purple	RHS N 74B	
22	<u>Varieties with bi- or multicoloured flowers only:</u> Flower: distribution of secondary colour	mainly on upper petal		1
23	Flower: eye zone	present		9
24	Flower: size of eye zone	large		7
25	Flower: main colour of eye zone	purple red	RHS N 57A	

3. UPOV Color Groups

3.1 The 50 UPOV Color Groups are as follows:

UPOV Group No.	English	français	deutsch	español
1	white		weiss	
2	light green		hellgrün	
3	medium green		mittelgrün	
4	dark green		dunkelgrün	
5	yellow green		gelbgrün	
6	grey green		graugrün	
7	light blue green		hellblaugrün	
8	blue green		blaugrün	
9	brown green		braungrün	
10	light yellow		hellgelb	
11	yellow		gelb	
12	light yellow orange		hellgelborange	
13	yellow orange		gelborange	
14	orange		orange	
15	orange pink		orangerosa	
16	light red pink		hellrotrosa	
17	red pink		rotrosa	
18	light blue pink		hellblaurosa	
19	blue pink		blaurosa	
20	orange red		orangerot	
21	red		rot	
22	dark pink red		dunkelrosarot	
23	purple red		purpurrot	
24	dark purple red		dunkelpurpurrot	
25	brown red		braunrot	
26	brown purple		braunpurpur	
27	purple		purpur	
28	violet		violett	
29	dark violet		dunkelviolett	
30	light blue violet		hellblauviolett	
31	blue violet		blauviolett	
32	light violet blue		hellviolettblau	
33	violet blue		violettblau	
34	light blue		hellblau	
35	medium blue		mittelblau	
36	dark blue		dunkelblau	
37	light green blue		hellgrünblau	
38	green blue		grünblau	
39	grey blue		graublau	
40	light brown		hellbraun	
41	medium brown		mittelbraun	
42	dark brown		dunkelbraun	
43	light yellow brown		hellgelbbraun	
44	yellow brown		gelbbraun	
45	orange brown		orangebraun	
46	grey brown		graubraun	
47	green brown		grünbraun	
48	grey		grau	
49	green grey		grüngrau	
50	black		schwarz	

3.2 The appendices to this document allocate the colors in the RHS Colour Chart to the appropriate UPOV Color Groups as follows:

Appendix I: Allocation of UPOV Color Groups for each RHS Color in
RHS Reference order

Appendix II: RHS Colors contained in each UPOV Color Group

[Appendices to Annex I of Annex follow]

APPENDIX I TO ANNEX I

Appendix I:
Allocation of UPOV Color Groups for each RHS Color in RHS Reference order

RHS COLORS (RHS COLOUR CHART, EDITIONS 1986, 1995 AND 2001)
BY UPOV COLOR GROUPS

N° de grupo UPOV	N° RHS	English	français	deutsch	español
11	001A	yellow	jaune	gelb	amarillo
5	001B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	001C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	001D	yellow green	vert-jaune	gelbgrün	verde amarillento
11	002A	yellow	jaune	gelb	amarillo
11	002B	yellow	jaune	gelb	amarillo
5	002C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	002D	yellow green	vert-jaune	gelbgrün	verde amarillento
11	003A	yellow	jaune	gelb	amarillo
11	003B	yellow	jaune	gelb	amarillo
11	003C	yellow	jaune	gelb	amarillo
5	003D	yellow green	vert-jaune	gelbgrün	verde amarillento
11	004A	yellow	jaune	gelb	amarillo
11	004B	yellow	jaune	gelb	amarillo
5	004C	yellow green	vert-jaune	gelbgrün	verde amarillento
10	004D	light yellow	jaune clair	hellgelb	amarillo claro
11	005A	yellow	jaune	gelb	amarillo
11	005B	yellow	jaune	gelb	amarillo
11	005C	yellow	jaune	gelb	amarillo
10	005D	light yellow	jaune clair	hellgelb	amarillo claro
11	006A	yellow	jaune	gelb	amarillo
11	006B	yellow	jaune	gelb	amarillo
11	006C	yellow	jaune	gelb	amarillo
10	006D	light yellow	jaune clair	hellgelb	amarillo claro
11	007A	yellow	jaune	gelb	amarillo
11	007B	yellow	jaune	gelb	amarillo
11	007C	yellow	jaune	gelb	amarillo
11	007D	yellow	jaune	gelb	amarillo
11	008A	yellow	jaune	gelb	amarillo
10	008B	light yellow	jaune clair	hellgelb	amarillo claro
10	008C	light yellow	jaune clair	hellgelb	amarillo claro
10	008D	light yellow	jaune clair	hellgelb	amarillo claro
11	009A	yellow	jaune	gelb	amarillo
11	009B	yellow	jaune	gelb	amarillo
10	009C	light yellow	jaune clair	hellgelb	amarillo claro
10	009D	light yellow	jaune clair	hellgelb	amarillo claro
10	010A	light yellow	jaune clair	hellgelb	amarillo claro
10	010B	light yellow	jaune clair	hellgelb	amarillo claro
10	010C	light yellow	jaune clair	hellgelb	amarillo claro
10	010D	light yellow	jaune clair	hellgelb	amarillo claro
13	011A	yellow orange	jaune orangé	gelborange	naranja amarillento
10	011B	light yellow	jaune clair	hellgelb	amarillo claro
10	011C	light yellow	jaune clair	hellgelb	amarillo claro

TWF/42/16: Annex
TGP/14: Subsection 3: Color: Appendix I to Annex I, page 2

N° de grupo UPOV	N° RHS	English	français	deutsch	español
12	011D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
11	012A	yellow	jaune	gelb	amarillo
11	012B	yellow	jaune	gelb	amarillo
10	012C	light yellow	jaune clair	hellgelb	amarillo claro
10	012D	light yellow	jaune clair	hellgelb	amarillo claro
13	013A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	013B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	013C	yellow orange	jaune orangé	gelborange	naranja amarillento
10	013D	light yellow	jaune clair	hellgelb	amarillo claro
13	014A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	014B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	014C	yellow orange	jaune orangé	gelborange	naranja amarillento
10	014D	light yellow	jaune clair	hellgelb	amarillo claro
13	015A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	015B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	015C	yellow orange	jaune orangé	gelborange	naranja amarillento
10	015D	light yellow	jaune clair	hellgelb	amarillo claro
13	016A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	016B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	016C	yellow orange	jaune orangé	gelborange	naranja amarillento
10	016D	light yellow	jaune clair	hellgelb	amarillo claro
13	017A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	017B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	017C	yellow orange	jaune orangé	gelborange	naranja amarillento
13	017D	yellow orange	jaune orangé	gelborange	naranja amarillento
13	018A	yellow orange	jaune orangé	gelborange	naranja amarillento
12	018B	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	018C	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	018D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
13	019A	yellow orange	jaune orangé	gelborange	naranja amarillento
12	019B	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	019C	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	019D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
13	020A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	020B	yellow orange	jaune orangé	gelborange	naranja amarillento
12	020C	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	020D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
13	021A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	021B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	021C	yellow orange	jaune orangé	gelborange	naranja amarillento
12	021D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
13	022A	yellow orange	jaune orangé	gelborange	naranja amarillento
12	022B	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	022C	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	022D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
13	023A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	023B	yellow orange	jaune orangé	gelborange	naranja amarillento
12	023C	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	023D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
14	024A	orange	orange	orange	naranja
14	024B	orange	orange	orange	naranja
14	024C	orange	orange	orange	naranja
14	024D	orange	orange	orange	naranja

N° de grupo UPOV	N° RHS	English	français	deutsch	español
14	025A	orange	orange	orange	naranja
14	025B	orange	orange	orange	naranja
14	025C	orange	orange	orange	naranja
14	025D	orange	orange	orange	naranja
20	N 025A	orange red	rouge orangé	orangerot	rojo anaranjado
14	N 025B	orange	orange	orange	naranja
14	N 025C	orange	orange	orange	naranja
13	N 025D	yellow orange	jaune orangé	gelborange	naranja amarillento
14	026A	orange	orange	orange	naranja
14	026B	orange	orange	orange	naranja
14	026C	orange	orange	orange	naranja
14	026D	orange	orange	orange	naranja
15	027A	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027B	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027D	orange pink	rose orangé	orangerosa	rosa anaranjado
20	028A	orange red	rouge orangé	orangerot	rojo anaranjado
14	028B	orange	orange	orange	naranja
14	028C	orange	orange	orange	naranja
14	028D	orange	orange	orange	naranja
14	029A	orange	orange	orange	naranja
14	029B	orange	orange	orange	naranja
15	029C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	029D	orange pink	rose orangé	orangerosa	rosa anaranjado
20	030A	orange red	rouge orangé	orangerot	rojo anaranjado
20	030B	orange red	rouge orangé	orangerot	rojo anaranjado
20	030C	orange red	rouge orangé	orangerot	rojo anaranjado
14	030D	orange	orange	orange	naranja
21	N 030A	red	rouge	rot	rojo
20	N 030B	orange red	rouge orangé	orangerot	rojo anaranjado
20	N 030C	orange red	rouge orangé	orangerot	rojo anaranjado
14	N 030D	orange	orange	orange	naranja
20	031A	orange red	rouge orangé	orangerot	rojo anaranjado
45	031B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	031C	orange brown	brun-orange	orangebraun	marrón anaranjado
15	031D	orange pink	rose orangé	orangerosa	rosa anaranjado
20	032A	orange red	rouge orangé	orangerot	rojo anaranjado
20	032B	orange red	rouge orangé	orangerot	rojo anaranjado
45	032C	orange brown	brun-orange	orangebraun	marrón anaranjado
15	032D	orange pink	rose orangé	orangerosa	rosa anaranjado
21	033A	red	rouge	rot	rojo
20	033B	orange red	rouge orangé	orangerot	rojo anaranjado
45	033C	orange brown	brun-orange	orangebraun	marrón anaranjado
15	033D	orange pink	rose orangé	orangerosa	rosa anaranjado
21	034A	red	rouge	rot	rojo
45	034B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034D	orange brown	brun-orange	orangebraun	marrón anaranjado
24	N 034A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
21	N 034B	red	rouge	rot	rojo
22	N 034C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
45	N 034D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	035A	orange brown	brun-orange	orangebraun	marrón anaranjado

TWF/42/16: Annex
TGP/14: Subsection 3: Color: Appendix I to Annex I, page 4

N° de grupo UPOV	N° RHS	English	français	deutsch	español
20	035B	orange red	rouge orangé	orangerot	rojo anaranjado
15	035C	orange pink	rose orangé	orangerosa	rosa anaranjado
16	035D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036A	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
15	037A	orange pink	rose orangé	orangerosa	rosa anaranjado
15	037B	orange pink	rose orangé	orangerosa	rosa anaranjado
16	037C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	037D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038A	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
20	039A	orange red	rouge orangé	orangerot	rojo anaranjado
20	039B	orange red	rouge orangé	orangerot	rojo anaranjado
16	039C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	039D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
21	040A	red	rouge	rot	rojo
21	040B	red	rouge	rot	rojo
20	040C	orange red	rouge orangé	orangerot	rojo anaranjado
20	040D	orange red	rouge orangé	orangerot	rojo anaranjado
21	041A	red	rouge	rot	rojo
20	041B	orange red	rouge orangé	orangerot	rojo anaranjado
20	041C	orange red	rouge orangé	orangerot	rojo anaranjado
16	041D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
21	042A	red	rouge	rot	rojo
21	042B	red	rouge	rot	rojo
21	042C	red	rouge	rot	rojo
20	042D	orange red	rouge orangé	orangerot	rojo anaranjado
21	043A	red	rouge	rot	rojo
21	043B	red	rouge	rot	rojo
17	043C	red pink	rose-rouge	rotrosa	rosa rojizo
17	043D	red pink	rose-rouge	rotrosa	rosa rojizo
21	044A	red	rouge	rot	rojo
21	044B	red	rouge	rot	rojo
21	044C	red	rouge	rot	rojo
20	044D	orange red	rouge orangé	orangerot	rojo anaranjado
21	045A	red	rouge	rot	rojo
21	045B	red	rouge	rot	rojo
21	045C	red	rouge	rot	rojo
22	045D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
24	046A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
21	046B	red	rouge	rot	rojo
21	046C	red	rouge	rot	rojo
22	046D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
21	047A	red	rouge	rot	rojo
21	047B	red	rouge	rot	rojo
22	047C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	047D	red pink	rose-rouge	rotrosa	rosa rojizo
22	048A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	048B	red pink	rose-rouge	rotrosa	rosa rojizo

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
17	048C	red pink	rose-rouge	rotrosa	rosa rojizo
17	048D	red pink	rose-rouge	rotrosa	rosa rojizo
17	049A	red pink	rose-rouge	rotrosa	rosa rojizo
16	049B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
21	050A	red	rouge	rot	rojo
22	050B	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	050C	red pink	rose-rouge	rotrosa	rosa rojizo
16	050D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
22	051A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	051B	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	051C	red pink	rose-rouge	rotrosa	rosa rojizo
17	051D	red pink	rose-rouge	rotrosa	rosa rojizo
22	052A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	052B	red pink	rose-rouge	rotrosa	rosa rojizo
17	052C	red pink	rose-rouge	rotrosa	rosa rojizo
17	052D	red pink	rose-rouge	rotrosa	rosa rojizo
24	053A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	053B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
22	053C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	053D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
23	054A	purple red	pourpre	purpurrot	rojo purpúreo
23	054B	purple red	pourpre	purpurrot	rojo purpúreo
23	054C	purple red	pourpre	purpurrot	rojo purpúreo
18	054D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
23	055A	purple red	pourpre	purpurrot	rojo purpúreo
23	055B	purple red	pourpre	purpurrot	rojo purpúreo
18	055C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	055D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056A	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
23	057A	purple red	pourpre	purpurrot	rojo purpúreo
23	057B	purple red	pourpre	purpurrot	rojo purpúreo
23	057C	purple red	pourpre	purpurrot	rojo purpúreo
23	057D	purple red	pourpre	purpurrot	rojo purpúreo
23	N 057A	purple red	pourpre	purpurrot	rojo purpúreo
23	N 057B	purple red	pourpre	purpurrot	rojo purpúreo
23	N 057C	purple red	pourpre	purpurrot	rojo purpúreo
23	N 057D	purple red	pourpre	purpurrot	rojo purpúreo
27	058A	purple	pourpre	purpur	púrpura
23	058B	purple red	pourpre	purpurrot	rojo purpúreo
23	058C	purple red	pourpre	purpurrot	rojo purpúreo
23	058D	purple red	pourpre	purpurrot	rojo purpúreo
24	059A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	059B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
27	059C	purple	pourpre	purpur	púrpura
23	059D	purple red	pourpre	purpurrot	rojo purpúreo
24	060A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	060B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
27	060C	purple	pourpre	purpur	púrpura

N° de grupo UPOV	N° RHS	English	français	deutsch	español
23	060D	purple red	pourpre	purpurrot	rojo purpúreo
27	061A	purple	pourpre	purpur	púrpura
27	061B	purple	pourpre	purpur	púrpura
23	061C	purple red	pourpre	purpurrot	rojo purpúreo
23	061D	purple red	pourpre	purpurrot	rojo purpúreo
19	062A	blue pink	rose-bleu	blaurosa	rosa azulado
18	062B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
23	063A	purple red	pourpre	purpurrot	rojo purpúreo
19	063B	blue pink	rose-bleu	blaurosa	rosa azulado
19	063C	blue pink	rose-bleu	blaurosa	rosa azulado
18	063D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
27	064A	purple	pourpre	purpur	púrpura
27	064B	purple	pourpre	purpur	púrpura
19	064C	blue pink	rose-bleu	blaurosa	rosa azulado
19	064D	blue pink	rose-bleu	blaurosa	rosa azulado
19	065A	blue pink	rose-bleu	blaurosa	rosa azulado
18	065B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
23	066A	purple red	pourpre	purpurrot	rojo purpúreo
23	066B	purple red	pourpre	purpurrot	rojo purpúreo
19	066C	blue pink	rose-bleu	blaurosa	rosa azulado
19	066D	blue pink	rose-bleu	blaurosa	rosa azulado
23	N 066A	purple red	pourpre	purpurrot	rojo purpúreo
23	N 066B	purple red	pourpre	purpurrot	rojo purpúreo
19	N 066C	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 066D	blue pink	rose-bleu	blaurosa	rosa azulado
27	067A	purple	pourpre	purpur	púrpura
19	067B	blue pink	rose-bleu	blaurosa	rosa azulado
19	067C	blue pink	rose-bleu	blaurosa	rosa azulado
19	067D	blue pink	rose-bleu	blaurosa	rosa azulado
19	068A	blue pink	rose-bleu	blaurosa	rosa azulado
19	068B	blue pink	rose-bleu	blaurosa	rosa azulado
19	068C	blue pink	rose-bleu	blaurosa	rosa azulado
18	068D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	069A	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	069B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
30	069C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	069D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
27	070A	purple	pourpre	purpur	púrpura
27	070B	purple	pourpre	purpur	púrpura
19	070C	blue pink	rose-bleu	blaurosa	rosa azulado
18	070D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
27	071A	purple	pourpre	purpur	púrpura
27	071B	purple	pourpre	purpur	púrpura
27	071C	purple	pourpre	purpur	púrpura
19	071D	blue pink	rose-bleu	blaurosa	rosa azulado
27	072A	purple	pourpre	purpur	púrpura
27	072B	purple	pourpre	purpur	púrpura
19	072C	blue pink	rose-bleu	blaurosa	rosa azulado
19	072D	blue pink	rose-bleu	blaurosa	rosa azulado

TWF/42/16: Annex
TGP/14: Subsection 3: Color: Appendix I to Annex I, page 7

N° de grupo UPOV	N° RHS	English	français	deutsch	español
19	073A	blue pink	rose-bleu	blaurosa	rosa azulado
19	073B	blue pink	rose-bleu	blaurosa	rosa azulado
18	073C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	073D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
27	074A	purple	pourpre	purpur	púrpura
27	074B	purple	pourpre	purpur	púrpura
27	074C	purple	pourpre	purpur	púrpura
19	074D	blue pink	rose-bleu	blaurosa	rosa azulado
27	N 074A	purple	pourpre	purpur	púrpura
27	N 074B	purple	pourpre	purpur	púrpura
19	N 074C	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 074D	blue pink	rose-bleu	blaurosa	rosa azulado
28	075A	violet	violet	violett	violeta
28	075B	violet	violet	violett	violeta
28	075C	violet	violet	violett	violeta
28	075D	violet	violet	violett	violeta
30	076A	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076B	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
28	077A	violet	violet	violett	violeta
28	077B	violet	violet	violett	violeta
28	077C	violet	violet	violett	violeta
28	077D	violet	violet	violett	violeta
26	N 077A	brown purple	brun pourpre	braunpurpur	púrpura amarronado
28	N 077B	violet	violet	violett	violeta
29	N 077C	dark violet	violet foncé	dunkelviolett	violeta oscuro
28	N 077D	violet	violet	violett	violeta
28	078A	violet	violet	violett	violeta
28	078B	violet	violet	violett	violeta
28	078C	violet	violet	violett	violeta
28	078D	violet	violet	violett	violeta
28	N 078A	violet	violet	violett	violeta
28	N 078B	violet	violet	violett	violeta
28	N 078C	violet	violet	violett	violeta
28	N 078D	violet	violet	violett	violeta
29	079A	dark violet	violet foncé	dunkelviolett	violeta oscuro
29	079B	dark violet	violet foncé	dunkelviolett	violeta oscuro
29	079C	dark violet	violet foncé	dunkelviolett	violeta oscuro
29	079D	dark violet	violet foncé	dunkelviolett	violeta oscuro
29	N 079A	dark violet	violet foncé	dunkelviolett	violeta oscuro
29	N 079B	dark violet	violet foncé	dunkelviolett	violeta oscuro
27	N 079C	purple	pourpre	purpur	púrpura
28	N 079D	violet	violet	violett	violeta
28	080A	violet	violet	violett	violeta
28	080B	violet	violet	violett	violeta
28	080C	violet	violet	violett	violeta
28	080D	violet	violet	violett	violeta
28	N 080A	violet	violet	violett	violeta
28	N 080B	violet	violet	violett	violeta
28	N 080C	violet	violet	violett	violeta
28	N 080D	violet	violet	violett	violeta
28	081A	violet	violet	violett	violeta

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
28	081B	violet	violet	violett	violeta
28	081C	violet	violet	violett	violeta
28	081D	violet	violet	violett	violeta
28	N 081A	violet	violet	violett	violeta
28	N 081B	violet	violet	violett	violeta
28	N 081C	violet	violet	violett	violeta
28	N 081D	violet	violet	violett	violeta
28	082A	violet	violet	violett	violeta
28	082B	violet	violet	violett	violeta
28	082C	violet	violet	violett	violeta
28	082D	violet	violet	violett	violeta
28	N 082A	violet	violet	violett	violeta
28	N 082B	violet	violet	violett	violeta
28	N 082C	violet	violet	violett	violeta
28	N 082D	violet	violet	violett	violeta
29	083A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	083B	dark violet	violet foncé	dunkelviolet	violeta oscuro
31	083C	blue violet	violet-bleu	blauviolett	violeta azulado
31	083D	blue violet	violet-bleu	blauviolett	violeta azulado
28	084A	violet	violet	violett	violeta
28	084B	violet	violet	violett	violeta
30	084C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	084D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085A	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085B	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
29	086A	dark violet	violet foncé	dunkelviolet	violeta oscuro
31	086B	blue violet	violet-bleu	blauviolett	violeta azulado
31	086C	blue violet	violet-bleu	blauviolett	violeta azulado
31	086D	blue violet	violet-bleu	blauviolett	violeta azulado
28	087A	violet	violet	violett	violeta
28	087B	violet	violet	violett	violeta
28	087C	violet	violet	violett	violeta
28	087D	violet	violet	violett	violeta
28	N 087A	violet	violet	violett	violeta
28	N 087B	violet	violet	violett	violeta
28	N 087C	violet	violet	violett	violeta
28	N 087D	violet	violet	violett	violeta
31	088A	blue violet	violet-bleu	blauviolett	violeta azulado
31	088B	blue violet	violet-bleu	blauviolett	violeta azulado
31	088C	blue violet	violet-bleu	blauviolett	violeta azulado
28	088D	violet	violet	violett	violeta
31	N 088A	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088B	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088D	blue violet	violet-bleu	blauviolett	violeta azulado
33	089A	violet blue	bleu-violet	violettblau	azul violáceo
33	089B	violet blue	bleu-violet	violettblau	azul violáceo
31	089C	violet blue	violet-bleu	blauviolett	azul violáceo
31	089D	violet blue	violet-bleu	blauviolett	azul violáceo
33	N 089A	violet blue	bleu-violet	violettblau	azul violáceo
33	N 089B	violet blue	bleu-violet	violettblau	azul violáceo

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
31	N 089C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 089D	blue violet	violet-bleu	blauviolett	violeta azulado
31	090A	blue violet	violet-bleu	blauviolett	violeta azulado
31	090B	blue violet	violet-bleu	blauviolett	violeta azulado
31	090C	blue violet	violet-bleu	blauviolett	violeta azulado
31	090D	blue violet	bleu-violet	blauviolett	violeta azulado
33	091A	violet blue	bleu-violet	violettblau	azul violáceo
32	091B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	091C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	091D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	092A	violet blue	bleu-violet	violettblau	azul violáceo
32	092B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
29	N 092A	dark violet	violet foncé	dunkelviolett	violeta oscuro
33	N 092B	violet blue	bleu-violet	violettblau	azul violáceo
33	N 092C	violet blue	bleu-violet	violettblau	azul violáceo
31	N 092D	blue violet	violet-bleu	blauviolett	violeta azulado
33	093A	violet blue	bleu-violet	violettblau	azul violáceo
33	093B	violet blue	bleu-violet	violettblau	azul violáceo
33	093C	violet blue	bleu-violet	violettblau	azul violáceo
32	093D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	094A	violet blue	bleu-violet	violettblau	azul violáceo
33	094B	violet blue	bleu-violet	violettblau	azul violáceo
33	094C	violet blue	bleu-violet	violettblau	azul violáceo
32	094D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	095A	violet blue	bleu-violet	violettblau	azul violáceo
33	095B	violet blue	bleu-violet	violettblau	azul violáceo
33	095C	violet blue	bleu-violet	violettblau	azul violáceo
32	095D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	096A	violet blue	bleu-violet	violettblau	azul violáceo
33	096B	violet blue	bleu-violet	violettblau	azul violáceo
33	096C	violet blue	bleu-violet	violettblau	azul violáceo
33	096D	violet blue	bleu-violet	violettblau	azul violáceo
33	097A	violet blue	bleu-violet	violettblau	azul violáceo
32	097B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
35	098A	blue	bleu	blau	azul
35	098B	blue	bleu	blau	azul
35	098C	blue	bleu	blau	azul
35	098D	blue	bleu	blau	azul
36	099A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	099B	dark blue	bleu foncé	dunkelblau	azul oscuro
35	099C	blue	bleu	blau	azul
35	099D	blue	bleu	blau	azul
35	100A	blue	bleu	blau	azul
35	100B	blue	bleu	blau	azul
35	100C	blue	bleu	blau	azul
32	100D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
35	101A	blue	bleu	blau	azul
35	101B	blue	bleu	blau	azul
35	101C	blue	bleu	blau	azul

N° de grupo UPOV	N° RHS	English	français	deutsch	español
34	101D	light blue	bleu clair	hellblau	azul claro
36	102A	dark blue	bleu foncé	dunkelblau	azul oscuro
35	102B	blue	bleu	blau	azul
35	102C	blue	bleu	blau	azul
35	102D	blue	bleu	blau	azul
36	103A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103B	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103C	dark blue	bleu foncé	dunkelblau	azul oscuro
35	103D	blue	bleu	blau	azul
35	104A	blue	bleu	blau	azul
35	104B	blue	bleu	blau	azul
35	104C	blue	bleu	blau	azul
34	104D	light blue	bleu clair	hellblau	azul claro
35	105A	blue	bleu	blau	azul
35	105B	blue	bleu	blau	azul
35	105C	blue	bleu	blau	azul
35	105D	blue	bleu	blau	azul
35	106A	blue	bleu	blau	azul
34	106B	light blue	bleu clair	hellblau	azul claro
34	106C	light blue	bleu clair	hellblau	azul claro
34	106D	light blue	bleu clair	hellblau	azul claro
35	107A	blue	bleu	blau	azul
35	107B	blue	bleu	blau	azul
34	107C	light blue	bleu clair	hellblau	azul claro
34	107D	light blue	bleu clair	hellblau	azul claro
34	108A	light blue	bleu clair	hellblau	azul claro
34	108B	light blue	bleu clair	hellblau	azul claro
34	108C	light blue	bleu clair	hellblau	azul claro
34	108D	light blue	bleu clair	hellblau	azul claro
35	109A	blue	bleu	blau	azul
35	109B	blue	bleu	blau	azul
35	109C	blue	bleu	blau	azul
34	109D	light blue	bleu clair	hellblau	azul claro
35	N 109A	blue	bleu	blau	azul
35	N 109B	blue	bleu	blau	azul
35	N 109C	blue	bleu	blau	azul
34	N 109D	light blue	bleu clair	hellblau	azul claro
35	110A	blue	bleu	blau	azul
35	110B	blue	bleu	blau	azul
37	110C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	110D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	111A	green blue	bleu-vert	grünblau	azul verdoso
38	111B	green blue	bleu-vert	grünblau	azul verdoso
37	111C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	111D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
34	112A	light blue	bleu clair	hellblau	azul claro
34	112B	light blue	bleu clair	hellblau	azul claro
37	112C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	112D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	113A	green blue	bleu-vert	grünblau	azul verdoso
38	113B	green blue	bleu-vert	grünblau	azul verdoso
37	113C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	113D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro

N° de grupo UPOV	N° RHS	English	français	deutsch	español
38	114A	green blue	bleu-vert	grünblau	azul verdoso
38	114B	green blue	bleu-vert	grünblau	azul verdoso
38	114C	green blue	bleu-vert	grünblau	azul verdoso
38	114D	green blue	bleu-vert	grünblau	azul verdoso
38	115A	green blue	bleu-vert	grünblau	azul verdoso
38	115B	green blue	bleu-vert	grünblau	azul verdoso
39	115C	grey blue	bleu-gris	graublau	azul grisáceo
39	115D	grey blue	bleu-gris	graublau	azul grisáceo
38	116A	green blue	bleu-vert	grünblau	azul verdoso
38	116B	green blue	bleu-vert	grünblau	azul verdoso
38	116C	green blue	bleu-vert	grünblau	azul verdoso
38	116D	green blue	bleu-vert	grünblau	azul verdoso
37	117A	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117B	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	118A	green blue	bleu-vert	grünblau	azul verdoso
38	118B	green blue	bleu-vert	grünblau	azul verdoso
37	118C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	118D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	119A	green blue	bleu-vert	grünblau	azul verdoso
39	119B	grey blue	bleu-gris	graublau	azul grisáceo
39	119C	grey blue	bleu-gris	graublau	azul grisáceo
37	119D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
7	120A	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	120B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	120C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
37	120D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	121A	green blue	bleu-vert	grünblau	azul verdoso
7	121B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
37	121C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	121D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
39	122A	grey blue	bleu-gris	graublau	azul grisáceo
39	122B	grey blue	bleu-gris	graublau	azul grisáceo
39	122C	grey blue	bleu-gris	graublau	azul grisáceo
37	122D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
7	123A	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123D	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
3	124A	green	vert	grün	verde
8	124B	blue green	vert-bleu	blaugrün	verde azulado
7	124C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	124D	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
3	125A	green	vert	grün	verde
3	125B	green	vert	grün	verde
8	125C	blue green	vert-bleu	blaugrün	verde azulado
8	125D	blue green	vert-bleu	blaugrün	verde azulado
6	126A	grey green	vert-gris	graugrün	verde grisáceo
6	126B	grey green	vert-gris	graugrün	verde grisáceo
6	126C	grey green	vert-gris	graugrün	verde grisáceo
8	126D	blue green	vert-bleu	blaugrün	verde azulado
6	127A	grey green	vert-gris	graugrün	verde grisáceo

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
3	127B	green	gris	grün	verde
3	127C	green	gris	grün	verde
8	127D	blue green	vert-bleu	blaugrün	verde azulado
3	128A	green	vert	grün	verde
8	128B	blue green	vert-bleu	blaugrün	verde azulado
8	128C	blue green	vert-bleu	blaugrün	verde azulado
8	128D	blue green	vert-bleu	blaugrün	verde azulado
3	129A	green	vert	grün	verde
8	129B	blue green	vert-bleu	blaugrün	verde azulado
8	129C	blue green	vert-bleu	blaugrün	verde azulado
8	129D	blue green	vert-bleu	blaugrün	verde azulado
3	130A	green	vert	grün	verde
3	130B	green	vert	grün	verde
8	130C	blue green	vert-bleu	blaugrün	verde azulado
8	130D	blue green	vert-bleu	blaugrün	verde azulado
4	131A	dark green	vert foncé	dunkelgrün	verde oscuro
4	131B	dark green	vert foncé	dunkelgrün	verde oscuro
4	131C	dark green	vert foncé	dunkelgrün	verde oscuro
3	131D	green	vert	grün	verde
4	132A	dark green	vert foncé	dunkelgrün	verde oscuro
4	132B	dark green	vert foncé	dunkelgrün	verde oscuro
3	132C	green	vert	grün	verde
3	132D	green	vert	grün	verde
4	133A	dark green	vert foncé	dunkelgrün	verde oscuro
6	133B	grey green	vert-gris	graugrün	verde grisáceo
6	133C	grey green	vert-gris	graugrün	verde grisáceo
6	133D	grey green	vert-gris	graugrün	verde grisáceo
3	134A	green	vert	grün	verde
3	134B	green	vert	grün	verde
3	134C	green	vert	grün	verde
2	134D	light green	vert clair	hellgrün	verde claro
4	N 134A	dark green	vert foncé	dunkelgrün	verde oscuro
4	N 134B	dark green	vert foncé	dunkelgrün	verde oscuro
3	N 134C	green	vert	grün	verde
3	N 134D	green	vert	grün	verde
4	135A	dark green	vert foncé	dunkelgrün	verde oscuro
4	135B	dark green	vert foncé	dunkelgrün	verde oscuro
3	135C	green	vert	grün	verde
2	135D	light green	vert clair	hellgrün	verde claro
4	136A	dark green	vert foncé	dunkelgrün	verde oscuro
4	136B	dark green	vert foncé	dunkelgrün	verde oscuro
9	136C	brown green	vert-brun	braungrün	verde amarronado
2	136D	light green	vert clair	hellgrün	verde claro
4	137A	dark green	vert foncé	dunkelgrün	verde oscuro
9	137B	brown green	vert-brun	braungrün	verde amarronado
9	137C	brown green	vert-brun	braungrün	verde amarronado
9	137D	brown green	vert-brun	braungrün	verde amarronado
9	138A	brown green	vert-brun	braungrün	verde amarronado
9	138B	brown green	vert-brun	braungrün	verde amarronado
2	138C	light green	vert clair	hellgrün	verde claro
2	138D	light green	vert clair	hellgrün	verde claro
4	N 138A	dark green	vert foncé	dunkelgrün	verde oscuro
9	N 138B	brown green	vert-brun	braungrün	verde amarronado

N° de grupo UPOV	N° RHS	English	français	deutsch	español
9	N 138C	brown green	vert-brun	braungrün	verde amarronado
9	N 138D	brown green	vert-brun	braungrün	verde amarronado
4	139A	dark green	vert foncé	dunkelgrün	verde oscuro
9	139B	brown green	vert-brun	braungrün	verde amarronado
9	139C	brown green	vert-brun	braungrün	verde amarronado
2	139D	light green	vert clair	hellgrün	verde claro
3	140A	green	vert	grün	verde
3	140B	green	vert	grün	verde
2	140C	light green	vert clair	hellgrün	verde claro
2	140D	light green	vert clair	hellgrün	verde claro
4	141A	dark green	vert foncé	dunkelgrün	verde oscuro
4	141B	dark green	vert foncé	dunkelgrün	verde oscuro
4	141C	dark green	vert foncé	dunkelgrün	verde oscuro
2	141D	light green	vert clair	hellgrün	verde claro
3	142A	green	vert	grün	verde
2	142B	light green	vert clair	hellgrün	verde claro
2	142C	light green	vert clair	hellgrün	verde claro
2	142D	light green	vert clair	hellgrün	verde claro
4	143A	dark green	vert foncé	dunkelgrün	verde oscuro
4	143B	dark green	vert foncé	dunkelgrün	verde oscuro
4	143C	dark green	vert foncé	dunkelgrün	verde oscuro
2	143D	light green	vert clair	hellgrün	verde claro
4	144A	dark green	vert foncé	dunkelgrün	verde oscuro
2	144B	light green	vert clair	hellgrün	verde claro
2	144C	light green	vert clair	hellgrün	verde claro
2	144D	light green	vert clair	hellgrün	verde claro
2	N 144A	light green	vert clair	hellgrün	verde claro
2	N 144B	light green	vert clair	hellgrün	verde claro
2	N 144C	light green	vert clair	hellgrün	verde claro
2	N 144D	light green	vert clair	hellgrün	verde claro
2	145A	light green	vert clair	hellgrün	verde claro
2	145B	light green	vert clair	hellgrün	verde claro
2	145C	light green	vert clair	hellgrün	verde claro
2	145D	light green	vert clair	hellgrün	verde claro
9	146A	brown green	vert-brun	braungrün	verde amarronado
9	146B	brown green	vert-brun	braungrün	verde amarronado
9	146C	brown green	vert-brun	braungrün	verde amarronado
9	146D	brown green	vert-brun	braungrün	verde amarronado
4	147A	dark green	vert foncé	dunkelgrün	verde oscuro
9	147B	brown green	vert-brun	braungrün	verde amarronado
9	147C	brown green	vert-brun	braungrün	verde amarronado
9	147D	brown green	vert-brun	braungrün	verde amarronado
9	148A	brown green	vert-brun	braungrün	verde amarronado
9	148B	brown green	vert-brun	braungrün	verde amarronado
9	148C	brown green	vert-brun	braungrün	verde amarronado
9	148D	brown green	vert-brun	braungrün	verde amarronado
5	149A	yellow green	vert-jaune	gelbgrün	verde amarillento
2	149B	light green	vert clair	hellgrün	verde claro
2	149C	light green	vert clair	hellgrün	verde claro
2	149D	light green	vert clair	hellgrün	verde claro
5	150A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150C	yellow green	vert-jaune	gelbgrün	verde amarillento

TWF/42/16: Annex
TGP/14: Subsection 3: Color: Appendix I to Annex I, page 14

N° de grupo UPOV	N° RHS	English	français	deutsch	español
5	150D	yellow green	vert-jaune	gelbgrün	verde amarillento
47	151A	green brown	vert-brun	grünbraun	marrón verdoso
47	151B	green brown	vert-brun	grünbraun	marrón verdoso
47	151C	green brown	vert-brun	grünbraun	marrón verdoso
47	151D	green brown	vert-brun	grünbraun	marrón verdoso
47	152A	green brown	vert-brun	grünbraun	marrón verdoso
47	152B	green brown	vert-brun	grünbraun	marrón verdoso
47	152C	green brown	vert-brun	grünbraun	marrón verdoso
47	152D	green brown	vert-brun	grünbraun	marrón verdoso
47	153A	green brown	vert-brun	grünbraun	marrón verdoso
47	153B	green brown	vert-brun	grünbraun	marrón verdoso
47	153C	green brown	vert-brun	grünbraun	marrón verdoso
47	153D	green brown	vert-brun	grünbraun	marrón verdoso
5	154A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154D	yellow green	vert-jaune	gelbgrün	verde amarillento
1	155A	white	blanc	weiss	blanco
1	155B	white	blanc	weiss	blanco
1	155C	white	blanc	weiss	blanco
1	155D	white	blanc	weiss	blanco
1	N 155A	white	blanc	weiss	blanco
1	N 155B	white	blanc	weiss	blanco
1	N 155C	white	blanc	weiss	blanco
1	N 155D	white	blanc	weiss	blanco
48	156A	grey	gris	grau	gris
48	156B	grey	gris	grau	gris
48	156C	grey	gris	grau	gris
48	156D	grey	gris	grau	gris
48	157A	grey	gris	grau	gris
48	157B	grey	gris	grau	gris
48	157C	grey	gris	grau	gris
1	157D	white	blanc	weiss	blanco
43	158A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro

N° de grupo UPOV	N° RHS	English	français	deutsch	español
44	163A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
43	163B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
45	N 163A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 163B	orange brown	brun-orange	orangebraun	marrón anaranjado
44	N 163C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 163D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
43	164D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
41	165A	brown	brun	braun	marrón
44	165B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	165C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
43	165D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
41	166A	brown	brun	braun	marrón
41	166B	brown	brun	braun	marrón
40	166C	light brown	brun clair	hellbraun	marrón claro
40	166D	light brown	brun clair	hellbraun	marrón claro
44	167A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
45	168A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	168B	orange brown	brun-orange	orangebraun	marrón anaranjado
44	168C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	168D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
45	169A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169D	orange brown	brun-orange	orangebraun	marrón anaranjado
40	N 170A	light brown	brun clair	hellbraun	marrón claro
40	N 170B	light brown	brun clair	hellbraun	marrón claro
40	N 170C	light brown	brun clair	hellbraun	marrón claro
45	N 170D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170D	orange brown	brun-orange	orangebraun	marrón anaranjado
41	171A	brown	brun	braun	marrón
45	171B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171D	orange brown	brun-orange	orangebraun	marrón anaranjado
41	172A	brown	brun	braun	marrón
41	172B	brown	brun	braun	marrón
45	172C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	172D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172A	orange brown	brun-orange	orangebraun	marrón anaranjado

TWF/42/16: Annex
TGP/14: Subsection 3: Color: Appendix I to Annex I, page 16

N° de grupo UPOV	N° RHS	English	français	deutsch	español
45	N 172B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172C	orange brown	brun-orange	orangebraun	marrón anaranjado
44	N 172D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
41	173A	brown	brun	braun	marrón
45	173B	orange brown	brun-orange	orangebraun	marrón anaranjado
40	173C	light brown	brun clair	hellbraun	marrón claro
40	173D	light brown	brun clair	hellbraun	marrón claro
41	174A	brown	brun	braun	marrón
40	174B	light brown	brun clair	hellbraun	marrón claro
40	174C	light brown	brun clair	hellbraun	marrón claro
40	174D	light brown	brun clair	hellbraun	marrón claro
41	175A	brown	brun	braun	marrón
41	175B	brown	brun	braun	marrón
41	175C	brown	brun	braun	marrón
41	175D	brown	brun	braun	marrón
41	176A	brown	brun	braun	marrón
41	176B	brown	brun	braun	marrón
41	176C	brown	brun	braun	marrón
40	176D	light brown	brun clair	hellbraun	marrón claro
41	177A	brown	brun	braun	marrón
41	177B	brown	brun	braun	marrón
40	177C	light brown	brun clair	hellbraun	marrón claro
40	177D	light brown	brun clair	hellbraun	marrón claro
26	178A	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	178B	brown purple	brun pourpre	braunpurpur	púrpura amarronado
25	178C	brown red	brun-rouge	braunrot	rojo amarronado
25	178D	brown red	brun-rouge	braunrot	rojo amarronado
25	179A	brown red	brun-rouge	braunrot	rojo amarronado
25	179B	brown red	brun-rouge	braunrot	rojo amarronado
45	179C	orange brown	brun-orange	orangebraun	marrón anaranjado
15	179D	orange pink	rose orangé	orangerosa	rosa anaranjado
25	180A	brown red	brun-rouge	braunrot	rojo amarronado
25	180B	brown red	brun-rouge	braunrot	rojo amarronado
25	180C	brown red	brun-rouge	braunrot	rojo amarronado
25	180D	brown red	brun-rouge	braunrot	rojo amarronado
25	181A	brown red	brun-rouge	braunrot	rojo amarronado
25	181B	brown red	brun-rouge	braunrot	rojo amarronado
25	181C	brown red	brun-rouge	braunrot	rojo amarronado
25	181D	brown red	brun-rouge	braunrot	rojo amarronado
25	182A	brown red	brun-rouge	braunrot	rojo amarronado
25	182B	brown red	brun-rouge	braunrot	rojo amarronado
25	182C	brown red	brun-rouge	braunrot	rojo amarronado
25	182D	brown red	brun-rouge	braunrot	rojo amarronado
26	183A	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	183B	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	183C	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	183D	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	184A	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	184B	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	184C	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	184D	brown purple	brun pourpre	braunpurpur	púrpura amarronado
24	185A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
26	185B	brown purple	brun pourpre	braunpurpur	púrpura amarronado

N° de grupo UPOV	N° RHS	English	français	deutsch	español
26	185C	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	185D	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	186A	brown purple	brun pourpre	braunpurpur	púrpura amarronado
26	186B	brown purple	brun pourpre	braunpurpur	púrpura amarronado
19	186C	blue pink	rose-bleu	blaurosa	rosa azulado
19	186D	blue pink	rose-bleu	blaurosa	rosa azulado
50	N 186A	black	noir	schwarz	negro
50	N 186B	black	noir	schwarz	negro
42	N 186C	dark brown	brun foncé	dunkelbraun	marrón oscuro
24	N 186D	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
26	187A	brown purple	brun pourpre	braunpurpur	púrpura amarronado
24	187B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187C	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187D	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
50	N 187A	black	noir	schwarz	negro
48	N 187B	grey	gris	grau	gris
48	N 187C	grey	gris	grau	gris
48	N 187D	grey	gris	grau	gris
49	188A	green grey	gris-vert	grüngrau	gris verdoso
49	188B	green grey	gris-vert	grüngrau	gris verdoso
49	188C	green grey	gris-vert	grüngrau	gris verdoso
49	188D	green grey	gris-vert	grüngrau	gris verdoso
9	189A	brown green	vert-brun	braungrün	verde amarronado
49	189B	green grey	gris-vert	grüngrau	gris verdoso
49	189C	green grey	gris-vert	grüngrau	gris verdoso
49	189D	green grey	gris-vert	grüngrau	gris verdoso
49	N 189A	green grey	gris-vert	grüngrau	gris verdoso
49	N 189B	green grey	gris-vert	grüngrau	gris verdoso
49	N 189C	green grey	gris-vert	grüngrau	gris verdoso
49	N 189D	green grey	gris-vert	grüngrau	gris verdoso
49	190A	green grey	gris-vert	grüngrau	gris verdoso
49	190B	green grey	gris-vert	grüngrau	gris verdoso
49	190C	green grey	gris-vert	grüngrau	gris verdoso
49	190D	green grey	gris-vert	grüngrau	gris verdoso
9	191A	brown green	vert-brun	braungrün	verde amarronado
9	191B	brown green	vert-brun	braungrün	verde amarronado
49	191C	green grey	gris-vert	grüngrau	gris verdoso
49	191D	green grey	gris-vert	grüngrau	gris verdoso
49	192A	green grey	gris-vert	grüngrau	gris verdoso
49	192B	green grey	gris-vert	grüngrau	gris verdoso
49	192C	green grey	gris-vert	grüngrau	gris verdoso
49	192D	green grey	gris-vert	grüngrau	gris verdoso
9	193A	brown green	vert-brun	braungrün	verde amarronado
9	193B	brown green	vert-brun	braungrün	verde amarronado
49	193C	green grey	gris-vert	grüngrau	gris verdoso
49	193D	green grey	gris-vert	grüngrau	gris verdoso
9	194A	brown green	vert-brun	braungrün	verde amarronado
9	194B	brown green	vert-brun	braungrün	verde amarronado
9	194C	brown green	vert-brun	braungrün	verde amarronado
48	194D	grey	gris	grau	gris
48	195A	grey	gris	grau	gris
48	195B	grey	gris	grau	gris
48	195C	grey	gris	grau	gris

N° de grupo UPOV	N° RHS	English	français	deutsch	español
48	195D	grey	gris	grau	gris
48	196A	grey	gris	grau	gris
48	196B	grey	gris	grau	gris
48	196C	grey	gris	grau	gris
48	196D	grey	gris	grau	gris
48	197A	grey	gris	grau	gris
48	197B	grey	gris	grau	gris
48	197C	grey	gris	grau	gris
48	197D	grey	gris	grau	gris
48	198A	grey	gris	grau	gris
48	198B	grey	gris	grau	gris
48	198C	grey	gris	grau	gris
48	198D	grey	gris	grau	gris
46	199A	grey brown	brun-gris	graubraun	marrón grisáceo
46	199B	grey brown	brun-gris	graubraun	marrón grisáceo
46	199C	grey brown	brun-gris	graubraun	marrón grisáceo
46	199D	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199A	grey brown	brun-gris	graubraun	marrón grisáceo
42	N 199B	dark brown	brun foncé	dunkelbraun	marrón oscuro
46	N 199C	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199D	grey brown	brun-gris	graubraun	marrón grisáceo
42	200A	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200B	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200C	dark brown	brun foncé	dunkelbraun	marrón oscuro
41	200D	brown	brun	braun	marrón
42	N 200A	dark brown	brun foncé	dunkelbraun	marrón oscuro
48	N 200B	grey	gris	grau	gris
48	N 200C	grey	gris	grau	gris
48	N 200D	grey	gris	grau	gris
48	201A	grey	gris	grau	gris
48	201B	grey	gris	grau	gris
48	201C	grey	gris	grau	gris
48	201D	grey	gris	grau	gris
50	202A	black	noir	schwarz	negro
48	202B	grey	gris	grau	gris
48	202C	grey	gris	grau	gris
48	202D	grey	gris	grau	gris

[Appendix 2 follows]

**Appendix II:
RHS Colors contained in each UPOV Color Group**

**UPOV COLOR GROUPS ACCORDING TO RHS COLOUR CHART REFERENCE
(1986, 1995 AND 2001 EDITIONS)**

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
1	155A	white	blanc	weiss	blanco
1	155B	white	blanc	weiss	blanco
1	155C	white	blanc	weiss	blanco
1	155D	white	blanc	weiss	blanco
1	N 155A	white	blanc	weiss	blanco
1	N 155B	white	blanc	weiss	blanco
1	N 155C	white	blanc	weiss	blanco
1	N 155D	white	blanc	weiss	blanco
1	157D	white	blanc	weiss	blanco
2	134D	light green	vert clair	hellgrün	verde claro
2	135D	light green	vert clair	hellgrün	verde claro
2	136D	light green	vert clair	hellgrün	verde claro
2	138C	light green	vert clair	hellgrün	verde claro
2	138D	light green	vert clair	hellgrün	verde claro
2	139D	light green	vert clair	hellgrün	verde claro
2	140C	light green	vert clair	hellgrün	verde claro
2	140D	light green	vert clair	hellgrün	verde claro
2	141D	light green	vert clair	hellgrün	verde claro
2	142B	light green	vert clair	hellgrün	verde claro
2	142C	light green	vert clair	hellgrün	verde claro
2	142D	light green	vert clair	hellgrün	verde claro
2	143D	light green	vert clair	hellgrün	verde claro
2	144B	light green	vert clair	hellgrün	verde claro
2	144C	light green	vert clair	hellgrün	verde claro
2	144D	light green	vert clair	hellgrün	verde claro
2	N 144A	light green	vert clair	hellgrün	verde claro
2	N 144B	light green	vert clair	hellgrün	verde claro
2	N 144C	light green	vert clair	hellgrün	verde claro
2	N 144D	light green	vert clair	hellgrün	verde claro
2	145A	light green	vert clair	hellgrün	verde claro
2	145B	light green	vert clair	hellgrün	verde claro
2	145C	light green	vert clair	hellgrün	verde claro
2	145D	light green	vert clair	hellgrün	verde claro
2	149B	light green	vert clair	hellgrün	verde claro
2	149C	light green	vert clair	hellgrün	verde claro
2	149D	light green	vert clair	hellgrün	verde claro
3	124A	green	vert	grün	verde
3	125A	green	vert	grün	verde
3	125B	green	vert	grün	verde
3	127B	green	vert	grün	verde
3	127C	green	vert	grün	verde
3	128A	green	vert	grün	verde
3	129A	green	vert	grün	verde
3	130A	green	vert	grün	verde
3	130B	green	vert	grün	verde
3	131D	green	vert	grün	verde
3	132C	green	vert	grün	verde
3	132D	green	vert	grün	verde
3	134A	green	vert	grün	verde
3	134B	green	vert	grün	verde

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
3	134C	green	vert	grün	verde
3	N 134C	green	vert	grün	verde
3	N 134D	green	vert	grün	verde
3	135C	green	vert	grün	verde
3	140A	green	vert	grün	verde
3	140B	green	vert	grün	verde
3	142A	green	vert	grün	verde
4	131A	dark green	vert foncé	dunkelgrün	verde oscuro
4	131B	dark green	vert foncé	dunkelgrün	verde oscuro
4	131C	dark green	vert foncé	dunkelgrün	verde oscuro
4	132A	dark green	vert foncé	dunkelgrün	verde oscuro
4	132B	dark green	vert foncé	dunkelgrün	verde oscuro
4	133A	dark green	vert foncé	dunkelgrün	verde oscuro
4	N 134A	dark green	vert foncé	dunkelgrün	verde oscuro
4	N 134B	dark green	vert foncé	dunkelgrün	verde oscuro
4	135A	dark green	vert foncé	dunkelgrün	verde oscuro
4	135B	dark green	vert foncé	dunkelgrün	verde oscuro
4	136A	dark green	vert foncé	dunkelgrün	verde oscuro
4	136B	dark green	vert foncé	dunkelgrün	verde oscuro
4	137A	dark green	vert foncé	dunkelgrün	verde oscuro
4	N 138A	dark green	vert foncé	dunkelgrün	verde oscuro
4	139A	dark green	vert foncé	dunkelgrün	verde oscuro
4	141A	dark green	vert foncé	dunkelgrün	verde oscuro
4	141B	dark green	vert foncé	dunkelgrün	verde oscuro
4	141C	dark green	vert foncé	dunkelgrün	verde oscuro
4	143A	dark green	vert foncé	dunkelgrün	verde oscuro
4	143B	dark green	vert foncé	dunkelgrün	verde oscuro
4	143C	dark green	vert foncé	dunkelgrün	verde oscuro
4	144A	dark green	vert foncé	dunkelgrün	verde oscuro
4	147A	dark green	vert foncé	dunkelgrün	verde oscuro
5	001B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	001C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	001D	yellow green	vert-jaune	gelbgrün	verde amarillento
5	002C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	002D	yellow green	vert-jaune	gelbgrün	verde amarillento
5	003D	yellow green	vert-jaune	gelbgrün	verde amarillento
5	004C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	149A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150D	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154D	yellow green	vert-jaune	gelbgrün	verde amarillento
6	126A	grey green	vert-gris	graugrün	verde grisáceo
6	126B	grey green	vert-gris	graugrün	verde grisáceo
6	126C	grey green	vert-gris	graugrün	verde grisáceo
6	127A	grey green	vert-gris	graugrün	verde grisáceo
6	133B	grey green	vert-gris	graugrün	verde grisáceo
6	133C	grey green	vert-gris	graugrün	verde grisáceo
6	133D	grey green	vert-gris	graugrün	verde grisáceo
7	120A	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro

N° de grupo UPOV	N° RHS	English	français	deutsch	español
7	120B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	120C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	121B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123A	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123D	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	124C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	124D	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
8	124B	blue green	vert-bleu	blaugrün	verde azulado
8	125C	blue green	vert-bleu	blaugrün	verde azulado
8	125D	blue green	vert-bleu	blaugrün	verde azulado
8	126D	blue green	vert-bleu	blaugrün	verde azulado
8	127D	blue green	vert-bleu	blaugrün	verde azulado
8	128B	blue green	vert-bleu	blaugrün	verde azulado
8	128C	blue green	vert-bleu	blaugrün	verde azulado
8	128D	blue green	vert-bleu	blaugrün	verde azulado
8	129B	blue green	vert-bleu	blaugrün	verde azulado
8	129C	blue green	vert-bleu	blaugrün	verde azulado
8	129D	blue green	vert-bleu	blaugrün	verde azulado
8	130C	blue green	vert-bleu	blaugrün	verde azulado
8	130D	blue green	vert-bleu	blaugrün	verde azulado
9	136C	brown green	vert-brun	braungrün	verde amarronado
9	137B	brown green	vert-brun	braungrün	verde amarronado
9	137C	brown green	vert-brun	braungrün	verde amarronado
9	137D	brown green	vert-brun	braungrün	verde amarronado
9	138A	brown green	vert-brun	braungrün	verde amarronado
9	138B	brown green	vert-brun	braungrün	verde amarronado
9	N 138B	brown green	vert-brun	braungrün	verde amarronado
9	N 138C	brown green	vert-brun	braungrün	verde amarronado
9	N 138D	brown green	vert-brun	braungrün	verde amarronado
9	139B	brown green	vert-brun	braungrün	verde amarronado
9	139C	brown green	vert-brun	braungrün	verde amarronado
9	146A	brown green	vert-brun	braungrün	verde amarronado
9	146B	brown green	vert-brun	braungrün	verde amarronado
9	146C	brown green	vert-brun	braungrün	verde amarronado
9	146D	brown green	vert-brun	braungrün	verde amarronado
9	147B	brown green	vert-brun	braungrün	verde amarronado
9	147C	brown green	vert-brun	braungrün	verde amarronado
9	147D	brown green	vert-brun	braungrün	verde amarronado
9	148A	brown green	vert-brun	braungrün	verde amarronado
9	148B	brown green	vert-brun	braungrün	verde amarronado
9	148C	brown green	vert-brun	braungrün	verde amarronado
9	148D	brown green	vert-brun	braungrün	verde amarronado
9	189A	brown green	vert-brun	braungrün	verde amarronado
9	191A	brown green	vert-brun	braungrün	verde amarronado
9	191B	brown green	vert-brun	braungrün	verde amarronado
9	193A	brown green	vert-brun	braungrün	verde amarronado
9	193B	brown green	vert-brun	braungrün	verde amarronado
9	194A	brown green	vert-brun	braungrün	verde amarronado
9	194B	brown green	vert-brun	braungrün	verde amarronado
9	194C	brown green	vert-brun	braungrün	verde amarronado
10	004D	light yellow	jaune clair	hellgelb	amarillo claro
10	005D	light yellow	jaune clair	hellgelb	amarillo claro

N° de grupo UPOV	N° RHS	English	français	deutsch	español
10	006D	light yellow	jaune clair	hellgelb	amarillo claro
10	008B	light yellow	jaune clair	hellgelb	amarillo claro
10	008C	light yellow	jaune clair	hellgelb	amarillo claro
10	008D	light yellow	jaune clair	hellgelb	amarillo claro
10	009C	light yellow	jaune clair	hellgelb	amarillo claro
10	009D	light yellow	jaune clair	hellgelb	amarillo claro
10	010A	light yellow	jaune clair	hellgelb	amarillo claro
10	010B	light yellow	jaune clair	hellgelb	amarillo claro
10	010C	light yellow	jaune clair	hellgelb	amarillo claro
10	010D	light yellow	jaune clair	hellgelb	amarillo claro
10	011B	light yellow	jaune clair	hellgelb	amarillo claro
10	011C	light yellow	jaune clair	hellgelb	amarillo claro
10	012C	light yellow	jaune clair	hellgelb	amarillo claro
10	012D	light yellow	jaune clair	hellgelb	amarillo claro
10	013D	light yellow	jaune clair	hellgelb	amarillo claro
10	014D	light yellow	jaune clair	hellgelb	amarillo claro
10	015D	light yellow	jaune clair	hellgelb	amarillo claro
10	016D	light yellow	jaune clair	hellgelb	amarillo claro
11	001A	yellow	jaune	gelb	amarillo
11	002A	yellow	jaune	gelb	amarillo
11	002B	yellow	jaune	gelb	amarillo
11	003A	yellow	jaune	gelb	amarillo
11	003B	yellow	jaune	gelb	amarillo
11	003C	yellow	jaune	gelb	amarillo
11	004A	yellow	jaune	gelb	amarillo
11	004B	yellow	jaune	gelb	amarillo
11	005A	yellow	jaune	gelb	amarillo
11	005B	yellow	jaune	gelb	amarillo
11	005C	yellow	jaune	gelb	amarillo
11	006A	yellow	jaune	gelb	amarillo
11	006B	yellow	jaune	gelb	amarillo
11	006C	yellow	jaune	gelb	amarillo
11	007A	yellow	jaune	gelb	amarillo
11	007B	yellow	jaune	gelb	amarillo
11	007C	yellow	jaune	gelb	amarillo
11	007D	yellow	jaune	gelb	amarillo
11	008A	yellow	jaune	gelb	amarillo
11	009A	yellow	jaune	gelb	amarillo
11	009B	yellow	jaune	gelb	amarillo
11	012A	yellow	jaune	gelb	amarillo
11	012B	yellow	jaune	gelb	amarillo
12	011D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	018B	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	018C	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	018D	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	019B	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	019C	light yellow orange	jaune orangé clair	hellgelborange	naranja amarillento claro
12	019D	light yellow orange	jaune orangé	hellgelborange	naranja amarillento claro

N° de grupo UPOV	N° RHS	English	français	deutsch	español
12	020C	light yellow orange	clair jaune orangé	hellgelborange	naranja amarillento claro
12	020D	light yellow orange	clair jaune orangé	hellgelborange	naranja amarillento claro
12	021D	light yellow orange	clair jaune orangé	hellgelborange	naranja amarillento claro
12	022B	light yellow orange	clair jaune orangé	hellgelborange	naranja amarillento claro
12	022C	light yellow orange	clair jaune orangé	hellgelborange	naranja amarillento claro
12	022D	light yellow orange	clair jaune orangé	hellgelborange	naranja amarillento claro
12	023C	light yellow orange	clair jaune orangé	hellgelborange	naranja amarillento claro
12	023D	light yellow orange	clair jaune orangé	hellgelborange	naranja amarillento claro
13	011A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	013A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	013B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	013C	yellow orange	jaune orangé	gelborange	naranja amarillento
13	014A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	014B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	014C	yellow orange	jaune orangé	gelborange	naranja amarillento
13	015A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	015B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	015C	yellow orange	jaune orangé	gelborange	naranja amarillento
13	016A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	016B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	016C	yellow orange	jaune orangé	gelborange	naranja amarillento
13	017A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	017B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	017C	yellow orange	jaune orangé	gelborange	naranja amarillento
13	017D	yellow orange	jaune orangé	gelborange	naranja amarillento
13	018A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	019A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	020A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	020B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	021A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	021B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	021C	yellow orange	jaune orangé	gelborange	naranja amarillento
13	022A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	023A	yellow orange	jaune orangé	gelborange	naranja amarillento
13	023B	yellow orange	jaune orangé	gelborange	naranja amarillento
13	N 025D	yellow orange	jaune orangé	gelborange	naranja amarillento
14	024A	orange	orange	orange	naranja
14	024B	orange	orange	orange	naranja
14	024C	orange	orange	orange	naranja
14	024D	orange	orange	orange	naranja
14	025A	orange	orange	orange	naranja
14	025B	orange	orange	orange	naranja
14	025C	orange	orange	orange	naranja
14	025D	orange	orange	orange	naranja
14	N 025B	orange	orange	orange	naranja

N° de grupo UPOV	N° RHS	English	français	deutsch	español
14	N 025C	orange	orange	orange	naranja
14	026A	orange	orange	orange	naranja
14	026B	orange	orange	orange	naranja
14	026C	orange	orange	orange	naranja
14	026D	orange	orange	orange	naranja
14	028B	orange	orange	orange	naranja
14	028C	orange	orange	orange	naranja
14	028D	orange	orange	orange	naranja
14	029A	orange	orange	orange	naranja
14	029B	orange	orange	orange	naranja
14	030D	orange	orange	orange	naranja
14	N 030D	orange	orange	orange	naranja
15	027A	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027B	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	029C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	029D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	031D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	032D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	033D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	035C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	037A	orange pink	rose orangé	orangerosa	rosa anaranjado
15	037B	orange pink	rose orangé	orangerosa	rosa anaranjado
15	179D	orange pink	rose orangé	orangerosa	rosa anaranjado
16	035D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036A	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	037C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	037D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038A	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	039C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	039D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	041D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	050D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
17	043C	red pink	rose-rouge	rotrosa	rosa rojizo
17	043D	red pink	rose-rouge	rotrosa	rosa rojizo
17	047D	red pink	rose-rouge	rotrosa	rosa rojizo
17	048B	red pink	rose-rouge	rotrosa	rosa rojizo
17	048C	red pink	rose-rouge	rotrosa	rosa rojizo
17	048D	red pink	rose-rouge	rotrosa	rosa rojizo
17	049A	red pink	rose-rouge	rotrosa	rosa rojizo
17	050C	red pink	rose-rouge	rotrosa	rosa rojizo
17	051C	red pink	rose-rouge	rotrosa	rosa rojizo
17	051D	red pink	rose-rouge	rotrosa	rosa rojizo
17	052B	red pink	rose-rouge	rotrosa	rosa rojizo

N° de grupo UPOV	N° RHS	English	français	deutsch	español
17	052C	red pink	rose-rouge	rotrosa	rosa rojizo
17	052D	red pink	rose-rouge	rotrosa	rosa rojizo
18	054D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	055C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	055D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056A	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	063D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	068D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	069A	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	069B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	070D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	073C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	073D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
19	062A	blue pink	rose-bleu	blaurosa	rosa azulado
19	063B	blue pink	rose-bleu	blaurosa	rosa azulado
19	063C	blue pink	rose-bleu	blaurosa	rosa azulado
19	064C	blue pink	rose-bleu	blaurosa	rosa azulado
19	064D	blue pink	rose-bleu	blaurosa	rosa azulado
19	065A	blue pink	rose-bleu	blaurosa	rosa azulado
19	066C	blue pink	rose-bleu	blaurosa	rosa azulado
19	066D	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 066C	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 066D	blue pink	rose-bleu	blaurosa	rosa azulado
19	067B	blue pink	rose-bleu	blaurosa	rosa azulado
19	067C	blue pink	rose-bleu	blaurosa	rosa azulado
19	067D	blue pink	rose-bleu	blaurosa	rosa azulado
19	068A	blue pink	rose-bleu	blaurosa	rosa azulado
19	068B	blue pink	rose-bleu	blaurosa	rosa azulado
19	068C	blue pink	rose-bleu	blaurosa	rosa azulado
19	070C	blue pink	rose-bleu	blaurosa	rosa azulado
19	071D	blue pink	rose-bleu	blaurosa	rosa azulado
19	072C	blue pink	rose-bleu	blaurosa	rosa azulado
19	072D	blue pink	rose-bleu	blaurosa	rosa azulado
19	073A	blue pink	rose-bleu	blaurosa	rosa azulado
19	073B	blue pink	rose-bleu	blaurosa	rosa azulado
19	074D	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 074C	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 074D	blue pink	rose-bleu	blaurosa	rosa azulado
19	186C	blue pink	rose-bleu	blaurosa	rosa azulado
19	186D	blue pink	rose-bleu	blaurosa	rosa azulado
20	N 025A	orange red	rouge orangé	orangerot	rojo anaranjado
20	028A	orange red	rouge orangé	orangerot	rojo anaranjado
20	030A	orange red	rouge orangé	orangerot	rojo anaranjado
20	030B	orange red	rouge orangé	orangerot	rojo anaranjado
20	030C	orange red	rouge orangé	orangerot	rojo anaranjado

N° de grupo UPOV	N° RHS	English	français	deutsch	español
20	N 030B	orange red	rouge orangé	orangerot	rojo anaranjado
20	N 030C	orange red	rouge orangé	orangerot	rojo anaranjado
20	031A	orange red	rouge orangé	orangerot	rojo anaranjado
20	032A	orange red	rouge orangé	orangerot	rojo anaranjado
20	032B	orange red	rouge orangé	orangerot	rojo anaranjado
20	033B	orange red	rouge orangé	orangerot	rojo anaranjado
20	035B	orange red	rouge orangé	orangerot	rojo anaranjado
20	039A	orange red	rouge orangé	orangerot	rojo anaranjado
20	039B	orange red	rouge orangé	orangerot	rojo anaranjado
20	040C	orange red	rouge orangé	orangerot	rojo anaranjado
20	040D	orange red	rouge orangé	orangerot	rojo anaranjado
20	041B	orange red	rouge orangé	orangerot	rojo anaranjado
20	041C	orange red	rouge orangé	orangerot	rojo anaranjado
20	042D	orange red	rouge orangé	orangerot	rojo anaranjado
20	044D	orange red	rouge orangé	orangerot	rojo anaranjado
21	N 030A	red	rouge	rot	rojo
21	033A	red	rouge	rot	rojo
21	034A	red	rouge	rot	rojo
21	N 034B	red	rouge	rot	rojo
21	040A	red	rouge	rot	rojo
21	040B	red	rouge	rot	rojo
21	041A	red	rouge	rot	rojo
21	042A	red	rouge	rot	rojo
21	042B	red	rouge	rot	rojo
21	042C	red	rouge	rot	rojo
21	043A	red	rouge	rot	rojo
21	043B	red	rouge	rot	rojo
21	044A	red	rouge	rot	rojo
21	044B	red	rouge	rot	rojo
21	044C	red	rouge	rot	rojo
21	045A	red	rouge	rot	rojo
21	045B	red	rouge	rot	rojo
21	045C	red	rouge	rot	rojo
21	046B	red	rouge	rot	rojo
21	046C	red	rouge	rot	rojo
21	047A	red	rouge	rot	rojo
21	047B	red	rouge	rot	rojo
21	050A	red	rouge	rot	rojo
22	N 034C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	045D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	046D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	047C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	048A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	050B	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	051A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	051B	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro

N° de grupo UPOV	N° RHS	English	français	deutsch	español
22	052A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	053C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	053D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
23	054A	purple red	pourpre	purpurrot	rojo purpúreo
23	054B	purple red	pourpre	purpurrot	rojo purpúreo
23	054C	purple red	pourpre	purpurrot	rojo purpúreo
23	055A	purple red	pourpre	purpurrot	rojo purpúreo
23	055B	purple red	pourpre	purpurrot	rojo purpúreo
23	057A	purple red	pourpre	purpurrot	rojo purpúreo
23	057B	purple red	pourpre	purpurrot	rojo purpúreo
23	057C	purple red	pourpre	purpurrot	rojo purpúreo
23	057D	purple red	pourpre	purpurrot	rojo purpúreo
23	N 057A	purple red	pourpre	purpurrot	rojo purpúreo
23	N 057B	purple red	pourpre	purpurrot	rojo purpúreo
23	N 057C	purple red	pourpre	purpurrot	rojo purpúreo
23	N 057D	purple red	pourpre	purpurrot	rojo purpúreo
23	058B	purple red	pourpre	purpurrot	rojo purpúreo
23	058C	purple red	pourpre	purpurrot	rojo purpúreo
23	058D	purple red	pourpre	purpurrot	rojo purpúreo
23	059D	purple red	pourpre	purpurrot	rojo purpúreo
23	060D	purple red	pourpre	purpurrot	rojo purpúreo
23	061C	purple red	pourpre	purpurrot	rojo purpúreo
23	061D	purple red	pourpre	purpurrot	rojo purpúreo
23	063A	purple red	pourpre	purpurrot	rojo purpúreo
23	066A	purple red	pourpre	purpurrot	rojo purpúreo
23	066B	purple red	pourpre	purpurrot	rojo purpúreo
23	N 066A	purple red	pourpre	purpurrot	rojo purpúreo
23	N 066B	purple red	pourpre	purpurrot	rojo purpúreo
24	N 034A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	046A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	053A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	053B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	059A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	059B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	060A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	060B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	185A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	N 186D	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187C	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187D	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
25	178C	brown red	brun-rouge	braunrot	rojo amarronado
25	178D	brown red	brun-rouge	braunrot	rojo amarronado
25	179A	brown red	brun-rouge	braunrot	rojo amarronado
25	179B	brown red	brun-rouge	braunrot	rojo amarronado
25	180A	brown red	brun-rouge	braunrot	rojo amarronado
25	180B	brown red	brun-rouge	braunrot	rojo amarronado
25	180C	brown red	brun-rouge	braunrot	rojo amarronado
25	180D	brown red	brun-rouge	braunrot	rojo amarronado
25	181A	brown red	brun-rouge	braunrot	rojo amarronado
25	181B	brown red	brun-rouge	braunrot	rojo amarronado

N° de grupo UPOV	N° RHS	English	français	deutsch	español
25	181C	brown red	brun-rouge	braunrot	rojo amarronado
25	181D	brown red	brun-rouge	braunrot	rojo amarronado
25	182A	brown red	brun-rouge	braunrot	rojo amarronado
25	182B	brown red	brun-rouge	braunrot	rojo amarronado
25	182C	brown red	brun-rouge	braunrot	rojo amarronado
25	182D	brown red	brun-rouge	braunrot	rojo amarronado
26	N 077A	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	178A	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	178B	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	183A	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	183B	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	183C	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	183D	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	184A	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	184B	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	184C	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	184D	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	185B	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	185C	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	185D	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	186A	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	186B	brown purple	pourpre marron	braunpurpur	púrpura amarronado
26	187A	brown purple	pourpre marron	braunpurpur	púrpura amarronado
27	058A	purple	pourpre	purpur	púrpura
27	059C	purple	pourpre	purpur	púrpura
27	060C	purple	pourpre	purpur	púrpura
27	061A	purple	pourpre	purpur	púrpura
27	061B	purple	pourpre	purpur	púrpura
27	064A	purple	pourpre	purpur	púrpura
27	064B	purple	pourpre	purpur	púrpura
27	067A	purple	pourpre	purpur	púrpura
27	070A	purple	pourpre	purpur	púrpura
27	070B	purple	pourpre	purpur	púrpura
27	071A	purple	pourpre	purpur	púrpura
27	071B	purple	pourpre	purpur	púrpura
27	071C	purple	pourpre	purpur	púrpura
27	072A	purple	pourpre	purpur	púrpura
27	072B	purple	pourpre	purpur	púrpura
27	074A	purple	pourpre	purpur	púrpura
27	074B	purple	pourpre	purpur	púrpura
27	074C	purple	pourpre	purpur	púrpura
27	N 074A	purple	pourpre	purpur	púrpura
27	N 074B	purple	pourpre	purpur	púrpura
27	N 079C	purple	pourpre	purpur	púrpura
28	N 082A	violet	violet	violett	violeta
28	N 082B	violet	violet	violett	violeta
28	N 082C	violet	violet	violett	violeta
28	N 082D	violet	violet	violett	violeta
28	075A	violet	violet	violett	violeta
28	075B	violet	violet	violett	violeta
28	075C	violet	violet	violett	violeta
28	075D	violet	violet	violett	violeta
28	077A	violet	violet	violett	violeta
28	077B	violet	violet	violett	violeta

N° de grupo UPOV	N° RHS	English	français	deutsch	español
28	077C	violet	violet	violett	violeta
28	077D	violet	violet	violett	violeta
28	N 077B	violet	violet	violett	violeta
28	N 077D	violet	violet	violett	violeta
28	078A	violet	violet	violett	violeta
28	078B	violet	violet	violett	violeta
28	078C	violet	violet	violett	violeta
28	078D	violet	violet	violett	violeta
28	N 078A	violet	violet	violett	violeta
28	N 078B	violet	violet	violett	violeta
28	N 078C	violet	violet	violett	violeta
28	N 078D	violet	violet	violett	violeta
28	N 079D	violet	violet	violett	violeta
28	080A	violet	violet	violett	violeta
28	080B	violet	violet	violett	violeta
28	080C	violet	violet	violett	violeta
28	080D	violet	violet	violett	violeta
28	N 080A	violet	violet	violett	violeta
28	N 080B	violet	violet	violett	violeta
28	N 080C	violet	violet	violett	violeta
28	N 080D	violet	violet	violett	violeta
28	081A	violet	violet	violett	violeta
28	081B	violet	violet	violett	violeta
28	081C	violet	violet	violett	violeta
28	081D	violet	violet	violett	violeta
28	N 081A	violet	violet	violett	violeta
28	N 081B	violet	violet	violett	violeta
28	N 081C	violet	violet	violett	violeta
28	N 081D	violet	violet	violett	violeta
28	082A	violet	violet	violett	violeta
28	082B	violet	violet	violett	violeta
28	082C	violet	violet	violett	violeta
28	082D	violet	violet	violett	violeta
28	084A	violet	violet	violett	violeta
28	084B	violet	violet	violett	violeta
28	087A	violet	violet	violett	violeta
28	087B	violet	violet	violett	violeta
28	087C	violet	violet	violett	violeta
28	087D	violet	violet	violett	violeta
28	N 087A	violet	violet	violett	violeta
28	N 087B	violet	violet	violett	violeta
28	N 087C	violet	violet	violett	violeta
28	N 087D	violet	violet	violett	violeta
28	088D	violet	violet	violett	violeta
29	N 077C	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	079A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	079B	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	079C	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	079D	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	N 079A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	N 079B	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	083A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	083B	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	086A	dark violet	violet foncé	dunkelviolet	violeta oscuro

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
29	N 092A	dark violet	violet foncé	dunkelviolet	violeta oscuro
30	069C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	069D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076A	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076B	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	084C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	084D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085A	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085B	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
31	083C	blue violet	violet-bleu	blauviolett	violeta azulado
31	083D	blue violet	violet-bleu	blauviolett	violeta azulado
31	086B	blue violet	violet-bleu	blauviolett	violeta azulado
31	086C	blue violet	violet-bleu	blauviolett	violeta azulado
31	086D	blue violet	violet-bleu	blauviolett	violeta azulado
31	088A	blue violet	violet-bleu	blauviolett	violeta azulado
31	088B	blue violet	violet-bleu	blauviolett	violeta azulado
31	088C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088A	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088B	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088D	blue violet	violet-bleu	blauviolett	violeta azulado
31	089C	violet blue	violet-bleu	blauviolett	azul violáceo
31	089D	violet blue	violet-bleu	blauviolett	azul violáceo
31	N 089C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 089D	blue violet	violet-bleu	blauviolett	violeta azulado
31	090A	blue violet	violet-bleu	blauviolett	violeta azulado
31	090B	blue violet	violet-bleu	blauviolett	violeta azulado
31	090C	blue violet	violet-bleu	blauviolett	violeta azulado
31	090D	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 092D	blue violet	violet-bleu	blauviolett	violeta azulado
32	091B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	091C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	091D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	093D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	094D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	095D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	100D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	089A	violet blue	violet-bleu	violettblau	azul violáceo
33	089B	violet blue	violet-bleu	violettblau	azul violáceo
33	N 089A	violet blue	violet-bleu	violettblau	azul violáceo
33	N 089B	violet blue	violet-bleu	violettblau	azul violáceo
33	091A	violet blue	violet-blue	violettblau	azul violáceo
33	092A	violet blue	violet-bleu	violettblau	azul violáceo
33	N 092B	violet blue	violet-bleu	violettblau	azul violáceo

N° de grupo UPOV	N° RHS	English	français	deutsch	español
33	N 092C	violet blue	violet-bleu	violettblau	azul violáceo
33	093A	violet blue	violet-bleu	violettblau	azul violáceo
33	093B	violet blue	violet-bleu	violettblau	azul violáceo
33	093C	violet blue	violet-bleu	violettblau	azul violáceo
33	094A	violet blue	violet-bleu	violettblau	azul violáceo
33	094B	violet blue	violet-bleu	violettblau	azul violáceo
33	094C	violet blue	violet-bleu	violettblau	azul violáceo
33	095A	violet blue	violet-bleu	violettblau	azul violáceo
33	095B	violet blue	violet-bleu	violettblau	azul violáceo
33	095C	violet blue	violet-bleu	violettblau	azul violáceo
33	096A	violet blue	violet-bleu	violettblau	azul violáceo
33	096B	violet blue	violet-bleu	violettblau	azul violáceo
33	096C	violet blue	violet-bleu	violettblau	azul violáceo
33	096D	violet blue	violet-bleu	violettblau	azul violáceo
33	097A	violet blue	violet-bleu	violettblau	azul violáceo
34	101D	light blue	bleu clair	hellblau	azul claro
34	104D	light blue	bleu clair	hellblau	azul claro
34	106B	light blue	bleu clair	hellblau	azul claro
34	106C	light blue	bleu clair	hellblau	azul claro
34	106D	light blue	bleu clair	hellblau	azul claro
34	107C	light blue	bleu clair	hellblau	azul claro
34	107D	light blue	bleu clair	hellblau	azul claro
34	108A	light blue	bleu clair	hellblau	azul claro
34	108B	light blue	bleu clair	hellblau	azul claro
34	108C	light blue	bleu clair	hellblau	azul claro
34	108D	light blue	bleu clair	hellblau	azul claro
34	109D	light blue	bleu clair	hellblau	azul claro
34	N 109D	light blue	bleu clair	hellblau	azul claro
34	112A	light blue	bleu clair	hellblau	azul claro
34	112B	light blue	bleu clair	hellblau	azul claro
35	098A	blue	bleu	blau	azul
35	098B	blue	bleu	blau	azul
35	098C	blue	bleu	blau	azul
35	098D	blue	bleu	blau	azul
35	099C	blue	bleu	blau	azul
35	099D	blue	bleu	blau	azul
35	100A	blue	bleu	blau	azul
35	100B	blue	bleu	blau	azul
35	100C	blue	bleu	blau	azul
35	101A	blue	bleu	blau	azul
35	101B	blue	bleu	blau	azul
35	101C	blue	bleu	blau	azul
35	102B	blue	bleu	blau	azul
35	102C	blue	bleu	blau	azul
35	102D	blue	bleu	blau	azul
35	103D	blue	bleu	blau	azul
35	104A	blue	bleu	blau	azul
35	104B	blue	bleu	blau	azul
35	104C	blue	bleu	blau	azul
35	105A	blue	bleu	blau	azul
35	105B	blue	bleu	blau	azul
35	105C	blue	bleu	blau	azul
35	105D	blue	bleu	blau	azul
35	106A	blue	bleu	blau	azul

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
35	107A	blue	bleu	blau	azul
35	107B	blue	bleu	blau	azul
35	109A	blue	bleu	blau	azul
35	109B	blue	bleu	blau	azul
35	109C	blue	bleu	blau	azul
35	N 109A	blue	bleu	blau	azul
35	N 109B	blue	bleu	blau	azul
35	N 109C	blue	bleu	blau	azul
35	110A	blue	bleu	blau	azul
35	110B	blue	bleu	blau	azul
36	099A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	099B	dark blue	bleu foncé	dunkelblau	azul oscuro
36	102A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103B	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103C	dark blue	bleu foncé	dunkelblau	azul oscuro
37	110C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	110D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	111C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	111D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	112C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	112D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	113C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	113D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117A	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117B	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	118C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	118D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	119D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	120D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	121C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	121D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	122D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	111A	green blue	bleu-vert	grünblau	azul verdoso
38	111B	green blue	bleu-vert	grünblau	azul verdoso
38	113A	green blue	bleu-vert	grünblau	azul verdoso
38	113B	green blue	bleu-vert	grünblau	azul verdoso
38	114A	green blue	bleu-vert	grünblau	azul verdoso
38	114B	green blue	bleu-vert	grünblau	azul verdoso
38	114C	green blue	bleu-vert	grünblau	azul verdoso
38	114D	green blue	bleu-vert	grünblau	azul verdoso
38	115A	green blue	bleu-vert	grünblau	azul verdoso
38	115B	green blue	bleu-vert	grünblau	azul verdoso
38	116A	green blue	bleu-vert	grünblau	azul verdoso
38	116B	green blue	bleu-vert	grünblau	azul verdoso
38	116C	green blue	bleu-vert	grünblau	azul verdoso
38	116D	green blue	bleu-vert	grünblau	azul verdoso
38	118A	green blue	bleu-vert	grünblau	azul verdoso
38	118B	green blue	bleu-vert	grünblau	azul verdoso
38	119A	green blue	bleu-vert	grünblau	azul verdoso
38	121A	green blue	bleu-vert	grünblau	azul verdoso
39	115C	grey blue	bleu-gris	graublau	azul grisáceo

Nº de grupo UPOV	Nº RHS	English	français	deutsch	español
39	115D	grey blue	bleu-gris	graublau	azul grisáceo
39	119B	grey blue	bleu-gris	graublau	azul grisáceo
39	119C	grey blue	bleu-gris	graublau	azul grisáceo
39	122A	grey blue	bleu-gris	graublau	azul grisáceo
39	122B	grey blue	bleu-gris	graublau	azul grisáceo
39	122C	grey blue	bleu-gris	graublau	azul grisáceo
40	166C	light brown	brun clair	hellbraun	marrón claro
40	166D	light brown	brun clair	hellbraun	marrón claro
40	N 170A	light brown	brun clair	hellbraun	marrón claro
40	N 170B	light brown	brun clair	hellbraun	marrón claro
40	N 170C	light brown	brun clair	hellbraun	marrón claro
40	173C	light brown	brun clair	hellbraun	marrón claro
40	173D	light brown	brun clair	hellbraun	marrón claro
40	174B	light brown	brun clair	hellbraun	marrón claro
40	174C	light brown	brun clair	hellbraun	marrón claro
40	174D	light brown	brun clair	hellbraun	marrón claro
40	176D	light brown	brun clair	hellbraun	marrón claro
40	177C	light brown	brun clair	hellbraun	marrón claro
40	177D	light brown	brun clair	hellbraun	marrón claro
41	165A	brown	brun	braun	marrón
41	166A	brown	brun	braun	marrón
41	166B	brown	brun	braun	marrón
41	171A	brown	brun	braun	marrón
41	172A	brown	brun	braun	marrón
41	172B	brown	brun	braun	marrón
41	173A	brown	brun	braun	marrón
41	174A	brown	brun	braun	marrón
41	175A	brown	brun	braun	marrón
41	175B	brown	brun	braun	marrón
41	175C	brown	brun	braun	marrón
41	175D	brown	brun	braun	marrón
41	176A	brown	brun	braun	marrón
41	176B	brown	brun	braun	marrón
41	176C	brown	brun	braun	marrón
41	177A	brown	brun	braun	marrón
41	177B	brown	brun	braun	marrón
41	200D	brown	brun	braun	marrón
42	N 186C	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	N 199B	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200A	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200B	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200C	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	N 200A	dark brown	brun foncé	dunkelbraun	marrón oscuro
43	158A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro

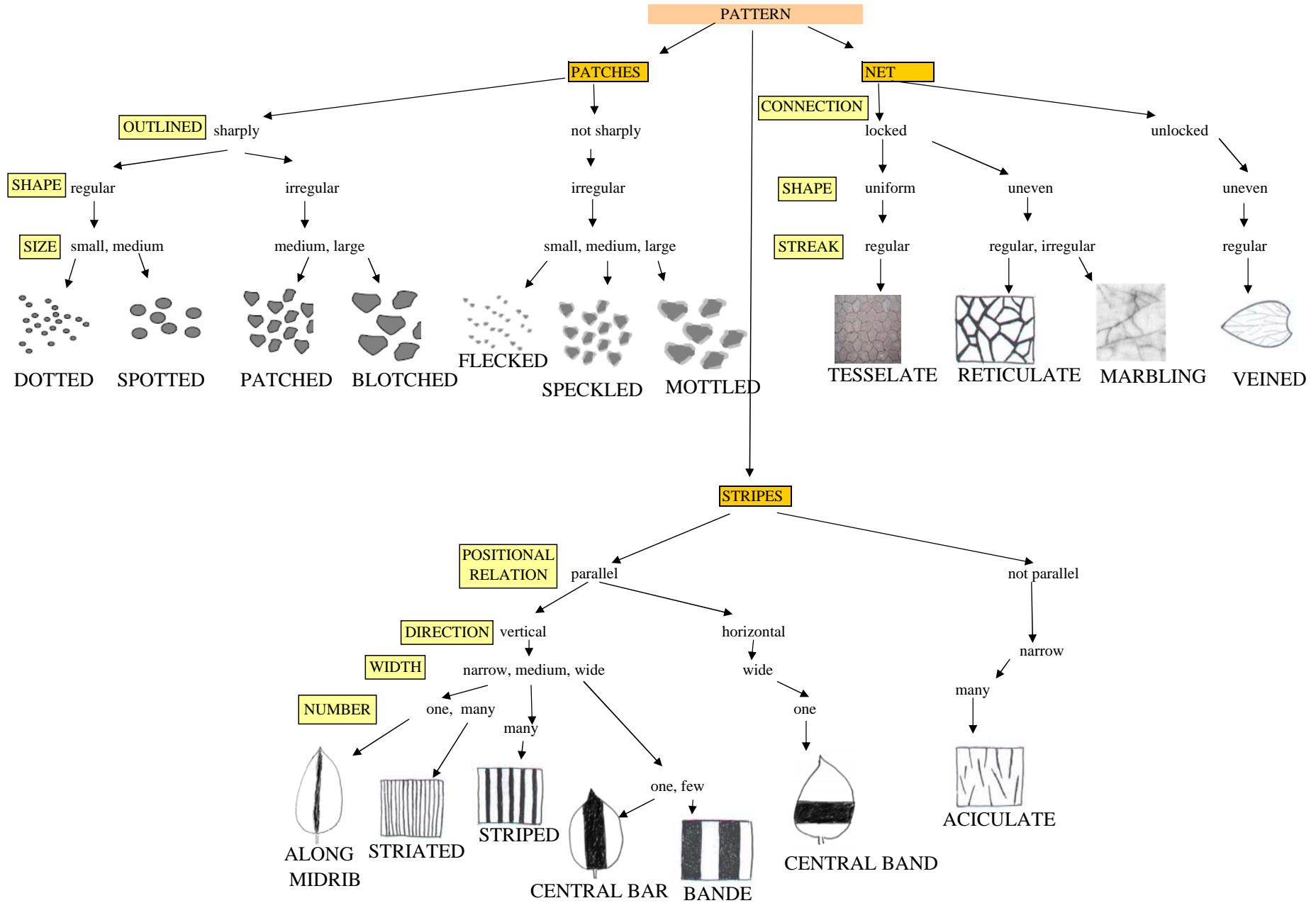
N° de grupo UPOV	N° RHS	English	français	deutsch	español
43	160D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	164D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	165D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
44	163A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 163C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 163D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	165B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	165C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	168C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	168D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 172D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
45	031B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	031C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	032C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	033C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 034D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	035A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 163A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 163B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	168A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	168B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170D	orange brown	brun-orange	orangebraun	marrón anaranjado

N° de grupo UPOV	N° RHS	English	français	deutsch	español
45	N 170D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	172C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	172D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	173B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	179C	orange brown	brun-orange	orangebraun	marrón anaranjado
46	199A	grey brown	brun-gris	graubraun	marrón grisáceo
46	199B	grey brown	brun-gris	graubraun	marrón grisáceo
46	199C	grey brown	brun-gris	graubraun	marrón grisáceo
46	199D	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199A	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199C	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199D	grey brown	brun-gris	graubraun	marrón grisáceo
47	151A	green brown	vert-brun	grünbraun	marrón verdoso
47	151B	green brown	vert-brun	grünbraun	marrón verdoso
47	151C	green brown	vert-brun	grünbraun	marrón verdoso
47	151D	green brown	vert-brun	grünbraun	marrón verdoso
47	152A	green brown	vert-brun	grünbraun	marrón verdoso
47	152B	green brown	vert-brun	grünbraun	marrón verdoso
47	152C	green brown	vert-brun	grünbraun	marrón verdoso
47	152D	green brown	vert-brun	grünbraun	marrón verdoso
47	153A	green brown	vert-brun	grünbraun	marrón verdoso
47	153B	green brown	vert-brun	grünbraun	marrón verdoso
47	153C	green brown	vert-brun	grünbraun	marrón verdoso
47	153D	green brown	vert-brun	grünbraun	marrón verdoso
48	156A	grey	gris	grau	gris
48	156B	grey	gris	grau	gris
48	156C	grey	gris	grau	gris
48	156D	grey	gris	grau	gris
48	157A	grey	gris	grau	gris
48	157B	grey	gris	grau	gris
48	157C	grey	gris	grau	gris
48	N 187B	grey	gris	grau	gris
48	N 187C	grey	gris	grau	gris
48	N 187D	grey	gris	grau	gris
48	194D	grey	gris	grau	gris
48	195A	grey	gris	grau	gris
48	195B	grey	gris	grau	gris
48	195C	grey	gris	grau	gris
48	195D	grey	gris	grau	gris
48	196A	grey	gris	grau	gris
48	196B	grey	gris	grau	gris
48	196C	grey	gris	grau	gris
48	196D	grey	gris	grau	gris
48	197A	grey	gris	grau	gris
48	197B	grey	gris	grau	gris
48	197C	grey	gris	grau	gris
48	197D	grey	gris	grau	gris
48	198A	grey	gris	grau	gris

N° de grupo UPOV	N° RHS	English	français	deutsch	español
48	198B	grey	gris	grau	gris
48	198C	grey	gris	grau	gris
48	198D	grey	gris	grau	gris
48	N 200B	grey	gris	grau	gris
48	N 200C	grey	gris	grau	gris
48	N 200D	grey	gris	grau	gris
48	201A	grey	gris	grau	gris
48	201B	grey	gris	grau	gris
48	201C	grey	gris	grau	gris
48	201D	grey	gris	grau	gris
48	202B	grey	gris	grau	gris
48	202C	grey	gris	grau	gris
48	202D	grey	gris	grau	gris
49	188A	green grey	gris-vert	grüngrau	gris verdoso
49	188B	green grey	gris-vert	grüngrau	gris verdoso
49	188C	green grey	gris-vert	grüngrau	gris verdoso
49	188D	green grey	gris-vert	grüngrau	gris verdoso
49	189B	green grey	gris-vert	grüngrau	gris verdoso
49	189C	green grey	gris-vert	grüngrau	gris verdoso
49	189D	green grey	gris-vert	grüngrau	gris verdoso
49	N 189A	green grey	gris-vert	grüngrau	gris verdoso
49	N 189B	green grey	gris-vert	grüngrau	gris verdoso
49	N 189C	green grey	gris-vert	grüngrau	gris verdoso
49	N 189D	green grey	gris-vert	grüngrau	gris verdoso
49	190A	green grey	gris-vert	grüngrau	gris verdoso
49	190B	green grey	gris-vert	grüngrau	gris verdoso
49	190C	green grey	gris-vert	grüngrau	gris verdoso
49	190D	green grey	gris-vert	grüngrau	gris verdoso
49	191C	green grey	gris-vert	grüngrau	gris verdoso
49	191D	green grey	gris-vert	grüngrau	gris verdoso
49	192A	green grey	gris-vert	grüngrau	gris verdoso
49	192B	green grey	gris-vert	grüngrau	gris verdoso
49	192C	green grey	gris-vert	grüngrau	gris verdoso
49	192D	green grey	gris-vert	grüngrau	gris verdoso
49	193C	green grey	gris-vert	grüngrau	gris verdoso
49	193D	green grey	gris-vert	grüngrau	gris verdoso
50	N 186A	black	noir	schwarz	negro
50	N 186B	black	noir	schwarz	negro
50	N 187A	black	noir	schwarz	negro
50	202A	black	noir	schwarz	negro

[Annex II to Annex follows]

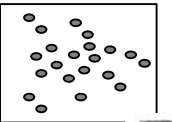
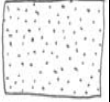
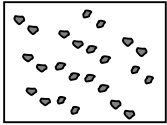
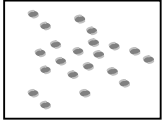
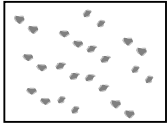
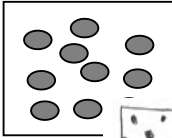
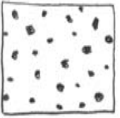
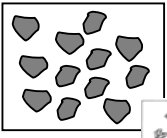
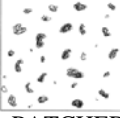
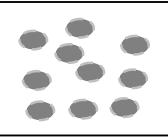

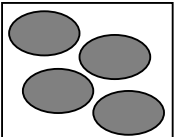
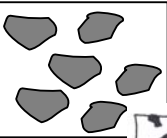

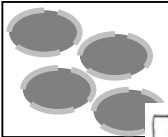

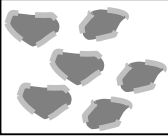
SCHEME FOR DETERMINING COLOR PATTERN TERMS

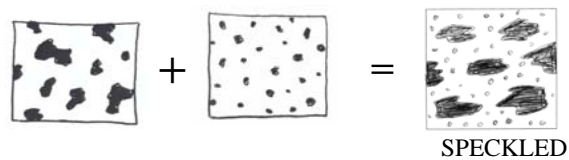


TWF/42/16: Annex
 TGP/14: Subsection 3: Color: Appendix 1 to Annex II
 PATCHES

PATTERN (fig.)-1

PATCHES
 outline (sharply / not sharply)
 shape (regular / irregular)
 size (small / medium / large)

OUTLINED SIZE \ SHAPE	sharply		not sharply	
	regular	irregular	regular	irregular
small	  DOTTED			
medium	  SPOTTED	  PATCHED		
large		  BLOTCHED	  MOTTLED	



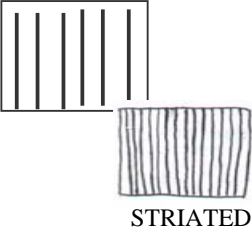

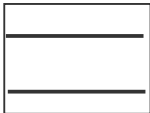



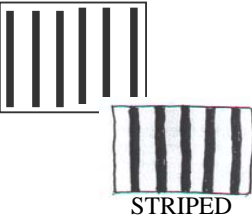


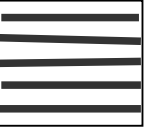

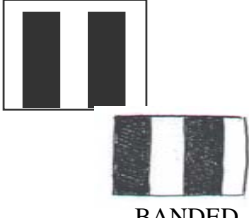






TWF/42/16: Annex
 TGP/14: Subsection 3: Color: Appendix 2 to Annex II
 STRIPES

PATTERN (fig.)-2-1

STRIPES

positional relation (parallel / not parallel)
 direction (vertical / horizontal)
 width (narrow / medium / wide)
 number (one / few / many)

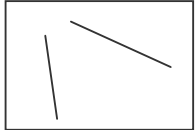

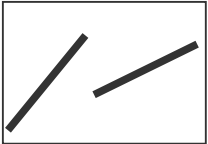


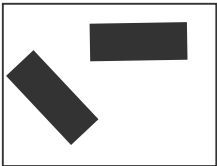
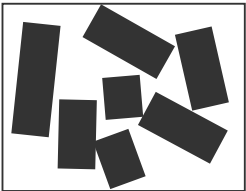
position direction	parallel					
	vertical			horizontal		
width \ number	one	few	many	one	few	many
narrow			 STRIATED			
medium	 MIDRIB		 STRIPED			
wide	 CENTRAL BAR	 BANDED		 CENTRAL BAND		

TWF/42/16: Annex
 TGP/14: Subsection 3: Color: Appendix 3 to Annex II
 STRIPES

PATTERN (fig.)-2-1

STRIPES

positional relation (parallel / not parallel)
 direction (vertical / horizontal)
 width (narrow / medium / wide)
 number (one / few / many)

position	not parallel	
direction		
width \ number	few	many
narrow		
medium		  ACICULATE
wide		

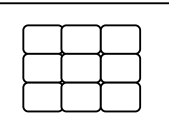

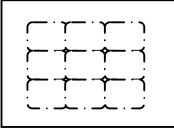
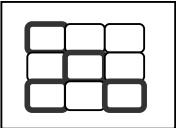
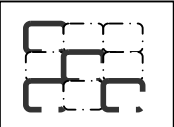







TWF/42/16: Annex
 TGP/14: Subsection 3: Color: Appendix 4 to Annex II
 NET

PATTERN (fig.)-3

NET

connection (locked / unlocked)

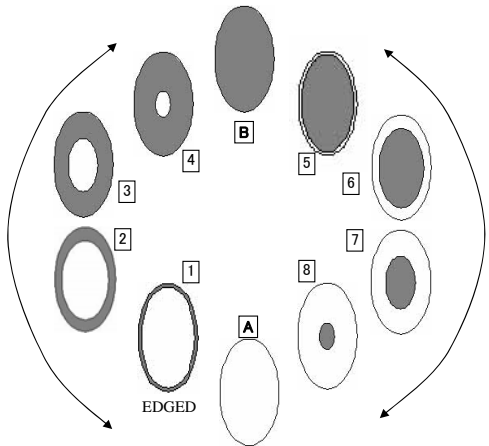
shape/grid (uniform/ uneven) / (regular / irregular)

shape	grid	locked	unlocked
uniform	regular	  TESSELLATED	
	irregular		
uneven	regular	  RETICULATE	  VEINED
	irregular	  MARBLING	

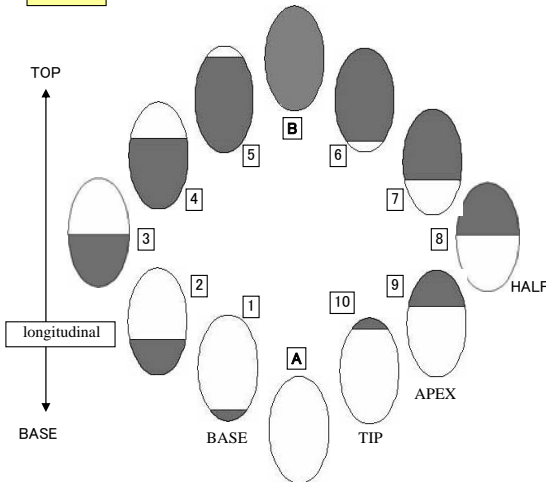
TWF/42/16: Annex
 TGP/14: Subsection 3: Color: Appendix 5 to Annex II
 DISTRIBUTION

DISTRIBUTION

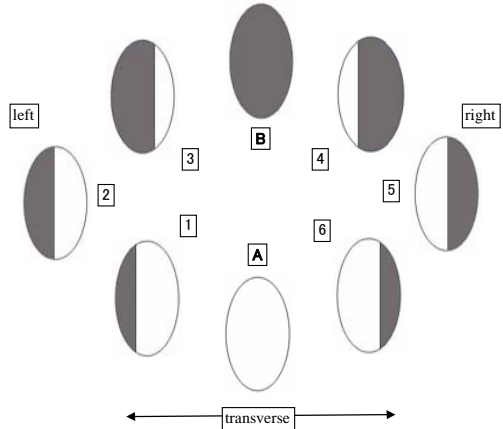
TYPE 1-1



TYPE2-1

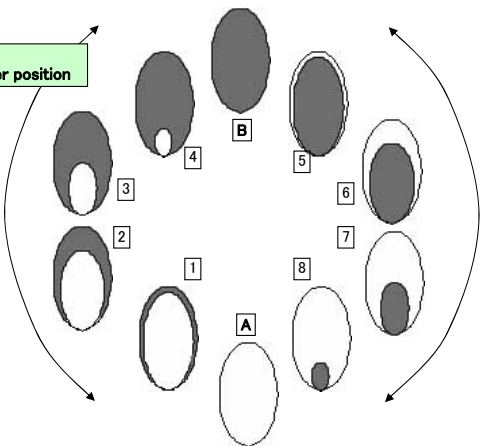
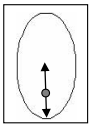


TYPE 3-1

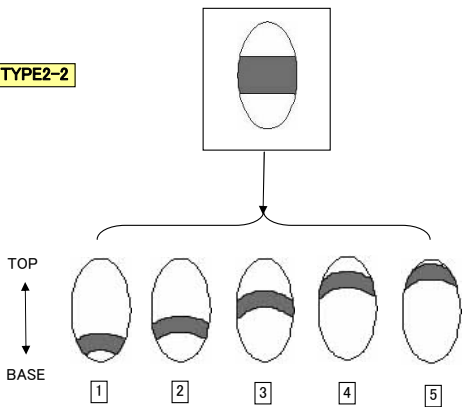


TYPE 1-2

arrange
: shift of the center position



TYPE2-2



TYPE 3-2

