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| DRAFT |

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|  | RHODODENDRON, AZALEA  UPOV Code(s): RHODD  *Rhododendron* L. | \* |

GUIDELINESFOR THE CONDUCT OF TESTS  
FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Germany

to be considered by the

Technical Working Party for Ornamental Plants and Forest Trees at its fifty-seventh session,

to be held in Roelofarendsveen, Kingdom of the Netherlands,

from 2025-03-31 to 2025-04-03

Disclaimer: this document does not represent UPOV policies or guidance

Alternative Names:\*

| *Botanical name* | *English* | *French* | *German* | *Spanish* |
| --- | --- | --- | --- | --- |
| *Rhododendron* L. | Rhododendron, Azalea | Rhododendron, Azalée | Rhododendron, Azalee | Rododendro, Azalea |

The purpose of these guidelines (“Test Guidelines”) is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

**ASSOCIATED DOCUMENTS**

These Test Guidelines should be read in conjunction with the General Introduction and its associated

TGP documents.

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# Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Rhododendron* L..

# Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of

*Pot type*: potted young plants, pinched twice

*Garden type*: plants with at least 3 flower buds per plant, grafted on a rootstock or on their own roots.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

*Pot type:* 10 plants  
  
*Garden type:* 6 plants

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

# Method of Examination

## 3.1  Number of Growing Cycles

3.1.1 The minimum duration of tests should normally be a single growing cycle.

3.1.2 The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.

## 3.2  Testing Place

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 “Examining Distinctness”.

## 3.3  Conditions for Conducting the Examination

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.3.2 The optimum stage of development for the assessment of each characteristic is indicated by a number in the Table of Characteristics. The stages of development denoted by each number are described in Chapter 8.

3.3.3 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. The color chart and version used should be specified in the variety description.

## 3.4  Test Design

3.4.1 Pot type: Each test should be designed to result in at least 10 plants.  
  
3.4.2 Garden type: Each test should be designed to result in at least 6 plants.

## 3.5  Additional Tests

Additional tests, for examining relevant characteristics, may be established.

# Assessment of Distinctness, Uniformity and Stability

## 4.1  Distinctness

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.1.4 Number of Plants or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 3 plants or parts of plants taken from each of 3 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the Table of Characteristics (see document TGP/9 “Examining Distinctness”, Section 4 “Observation of characteristics”):

MG: single measurement of a group of plants or parts of plants

MS: measurement of a number of individual plants or parts of plants

VG: visual assessment by a single observation of a group of plants or parts of plants

VS: visual assessment by observation of individual plants or parts of plants”):

Type of observation: visual (V) or measurement (M)

“Visual” observation (V) is an observation made on the basis of the expert’s judgment. For the purposes of this document, “visual” observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, “G” provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

## 4.2  Uniformity

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.

4.2.3 For the assessment of uniformity of vegetatively propagated varieties a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 6 to 35 plants, 1 off-type is allowed.

## 4.3  Stability

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

# Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

(a) Plant: persistence of leaves (characteristic 1) [G only]

(b) Mature leaf: variegation (characteristic 10)

(c) Flower: type (characteristic 19)

(d) Flower: main color on inner side (characteristic 27) with the following groups:

Gr. 1: white  
Gr. 2: yellow  
Gr. 3: orange  
Gr. 4: pink  
Gr. 5: red  
Gr. 6: purple  
Gr. 7: violet

(e) Flower: secondary color on inner side (characteristic 28) with the following groups:

Gr. 1: white  
Gr. 2: yellow  
Gr. 3: orange  
Gr. 4: pink  
Gr. 5: red  
Gr. 6: purple  
Gr. 7: violet

(f) Flower: distribution of secondary color on inner side (characteristic 29)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 “Examining Distinctness”.

# Introduction to the Table of Characteristics

## 6.1  Categories of Characteristics

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by \*) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

## 6.2  States of Expression and Corresponding Notes

6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.2.2 All relevant states of expression are presented in the characteristic.

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 “Development of Test Guidelines”.

## 6.3  Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

## 6.4  Example Varieties

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

[G] = Garden type  
[P] = Pot type

## 6.5  Legend

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | English | | français | | deutsch | español | Example Varieties  Exemples  Beispielssorten  Variedades ejemplo | Note/  Nota |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** |  |  |  |
|  |  | **Name of characteristics in English** | | **Nom du caractère en français** | | **Name des Merkmals auf Deutsch** | **Nombre del carácter en español** |  |  |
|  | states of expression | | types d’expression | | Ausprägungsstufen | tipos de expresión |  |  |

1 Characteristic number

2 (\*) Asterisked characteristic – see Chapter 6.1.2

3 Type of expression

QL Qualitative characteristic – see Chapter 6.3

QN Quantitative characteristic – see Chapter 6.3

PQ Pseudo-qualitative characteristic – see Chapter 6.3

4 Method of observation (and type of plot, if applicable)

MG, MS, VG, VS – see Chapter 4.1.5

5 (+) See Explanations on the Table of Characteristics in Chapter 8.2

6 (a)-(x) See Explanations on the Table of Characteristics in Chapter 8.1

7 Growth stage key (if applicable) See Explanations on the Table of Characteristics in Chapter 8.3

# Table of Characteristics/Tableau des caracteres/Merkmalstabelle/Tabla de caracteres

|  | | English | | français | | deutsch | español | Example Varieties  Exemples  Beispielssorten  Variedades ejemplo | Note/  Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **(\*)** | **QL** | **VG** | **(+)** |  | **[G]** |  |  |  |
|  | | **Plant: persistence of leaves** | |  | |  |  |  |  |
| deciduous | |  | |  |  | Golden Nectarine [G], Weston's Pink Diamond [G] | 1 |
| evergreen | |  | |  |  | Koromo-shikibu [G], Pink Pearl [G] | 2 |
| **2.** | **(\*)** | **PQ** | **VG** | **(+)** |  | **[G]** |  |  |  |
|  | | **Young leaf: color of upper side** | |  | |  |  |  |  |
| yellow | |  | |  |  |  |  |
| whitish | |  | |  |  | Silberpfeil [G] | 1 |
| light green | |  | |  |  | Katherine Dalton [G] | 2 |
| medium green | |  | |  |  |  | 3 |
| dark green | |  | |  |  |  | 4 |
| grey green | |  | |  |  | Malwine [G] | 5 |
| blue green | |  | |  |  | Blauschimmer [G] | 6 |
| yellow green | |  | |  |  | May Firth [G] | 7 |
| reddish green | |  | |  |  | Silver Slipper [G] | 8 |
| orange | |  | |  |  |  | 9 |
| red | |  | |  |  |  | 10 |
| purple | |  | |  |  |  | 11 |
| blackish purple | |  | |  |  |  | 12 |
| greenish brown | |  | |  |  | Mission Bells [G] | 13 |
| reddish brown | |  | |  |  |  | 14 |
| brown | |  | |  |  |  | 15 |
| **3.** |  | **QL** | **VG** | **(+)** |  | **[G]** |  |  |  |
|  | | **Only varieties with Plant: persistence of leaves: evergreen: Young leaf: indumentum on upper side** | |  | |  |  |  |  |
| absent | |  | |  |  | Pink Pearl [G] | 1 |
| present | |  | |  |  | Golfer [G] | 9 |
| **4.** |  | **PQ** | **VG** | **(+)** |  | **[G]** |  |  |  |
|  | | **Young leaf: color of indumentum on upper side** | |  | |  |  |  |  |
| whitish | |  | |  |  | Golfer [G] | 1 |
| yellowish | |  | |  |  | Yunan [G] | 2 |
| brown | |  | |  |  | Hydon Velvet [G] | 3 |
| reddish brown | |  | |  |  | Queen Bee [G] | 4 |
| **5.** |  | **QN** | **MG/MS/VG** |  | **(a),(b)** |  |  |  |  |
|  | | **Mature leaf: length (including petiole)** | |  | |  |  |  |  |
| extremely short | |  | |  |  | Douprava [G], Kazan [G] | 1 |
| extremely short to very short | |  | |  |  | Blue Tit [G], HORT06 [P], Mevrouw Gerard Kint [P] | 2 |
| very short | |  | |  |  | Hekla [P] | 3 |
| very short to short | |  | |  |  | Linde de Lo [P], PJM Compact [G] | 4 |
| short | |  | |  |  | Furious Fujiori [P] | 5 |
| short to medium | |  | |  |  | Graziella [G], Verdena15 [P] | 6 |
| medium | |  | |  |  | Gartendirektor Rieger [G] | 7 |
| medium to long | |  | |  |  | HORT02 [G], Overture [G] | 8 |
| long | |  | |  |  | Grifie [G], Pink Pearl [G] | 9 |
| long to very long | |  | |  |  | Peter Vermeulen [G] | 10 |
| very long | |  | |  |  | Calford Bounty [G] | 11 |
| very long to extremely long | |  | |  |  | Grace Seabrook [G], Graf Zeppelin [G] | 12 |
| extremely long | |  | |  |  | Burnie Supreme [G] | 13 |
| **6.** |  | **QN** | **MG/MS/VG** | **(+)** | **(a),(b)** |  |  |  |  |
|  | | **Mature leaf: width** | |  | |  |  |  |  |
| extremely narrow | |  | |  |  | Douprava [G], HORT36 [P] | 1 |
| extremely narrow to very narrow | |  | |  |  | HORT06 [P] | 2 |
| very narrow | |  | |  |  | Mevrouw Gerard Kint [P] | 3 |
| very narrow to narrow | |  | |  |  | Graziella [G], Linde de Lo [P] | 4 |
| narrow | |  | |  |  | Party Favor [P] | 5 |
| narrow to medium | |  | |  |  | Tigra [P] | 6 |
| medium | |  | |  |  | Queen Anne`s [G] | 7 |
| medium to broad | |  | |  |  |  | 8 |
| broad | |  | |  |  |  | 9 |
| broad to very broad | |  | |  |  |  | 10 |
| very broad | |  | |  |  | Peter Vermeulen [G] | 11 |
| very broad to extremely broad | |  | |  |  |  | 12 |
| extremely broad | |  | |  |  | Burnie Supreme [G] | 13 |
| **7.** |  | **PQ** | **VG** | **(+)** | **(a),(b)** |  |  |  |  |
|  | | **Mature leaf: shape of blade** | |  | |  |  |  |  |
| ovate | |  | |  |  | Rusty Dane [G] | 1 |
| lanceolate | |  | |  |  | HORT09 [P] | 2 |
| circular | |  | |  |  |  | 3 |
| elliptic | |  | |  |  | Golfer [G], Mont Ventoux [P] | 4 |
| oblong | |  | |  |  | Amadores [P], Calford Bounty [G] | 5 |
| linear | |  | |  |  | Fuju-kaku-no-matsu [G], Hekla [P] | 6 |
| obovate | |  | |  |  | Linde de Lo [P] | 7 |
| oblanceolate | |  | |  |  |  | 8 |
| **8.** |  | **QN** | **VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Mature leaf: shape of cross section** | |  | |  |  |  |  |
| strongly concave | |  | |  |  |  | 1 |
| moderately concave | |  | |  |  | Katherine Dalton [G] | 2 |
| weakly concave | |  | |  |  | Old Port [G] | 3 |
| flat | |  | |  |  | Cherry Kiss [G] | 4 |
| weakly convex | |  | |  |  | Overture [G] | 5 |
| moderately convex | |  | |  |  | Gartendirektor Rieger [G], Yaku Angel [G] | 6 |
| strongly convex | |  | |  |  | Fuju-kaku-no-matsu [G], Madidi [G] | 7 |
| **9.** |  | **QN** | **VG** |  | **(b)** |  |  |  |  |
|  | | **Mature leaf: glossiness of upper side** | |  | |  |  |  |  |
| absent or very weak | |  | |  |  | Schneekönigin [P] | 1 |
| weak | |  | |  |  | Mutter Emma [G], Verdena15 [P] | 2 |
| medium | |  | |  |  | Darius [P], Ovation [G], Party Favor [P] | 3 |
| strong | |  | |  |  | ILVOAIKO01 [P] | 4 |
| very strong | |  | |  |  | HORT200101 [P], Overture [G] | 5 |
| **10.** |  | **QL** | **VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Mature leaf: variegation** | |  | |  |  |  |  |
| absent | |  | |  |  | Pink Pearl [G], Sachsenstern [P] | 1 |
| present | |  | |  |  | Blattgold [G], ROBLEZF [G] | 9 |
| **11.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Mature leaf: main color of upper side** | |  | |  |  |  |  |
| whitish | |  | |  |  | Golfer [G] | 1 |
| yellow green | |  | |  |  | All Gold [G] | 2 |
| light green | |  | |  |  | Lavender Lace [P] | 3 |
| medium green | |  | |  |  | Party Favor [P] | 4 |
| dark green | |  | |  |  | HORT200101 [P], Taurus [G] | 5 |
| grey green | |  | |  |  |  | 6 |
| blue green | |  | |  |  |  | 7 |
| red green | |  | |  |  |  | 8 |
| brown green | |  | |  |  |  | 9 |
| red brown | |  | |  |  | Calle CP [G] | 10 |
| brown violet | |  | |  |  | Aubergine [G] | 11 |
| **12.** | **(\*)** | **PQ** | **VG** |  | **(b)** |  |  |  |  |
|  | | **Mature leaf: color of variegation of upper side** | |  | |  |  |  |  |
| whitish | |  | |  |  | Hot Shot Variegated [G] | 1 |
| yellow green | |  | |  |  |  | 2 |
| yellow | |  | |  |  | Blattgold [G] | 3 |
| **13.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Mature leaf: color of lower side** | |  | |  |  |  |  |
| whitish | |  | |  |  | Golfer [G] | 1 |
| light green | |  | |  |  | Mont Ventoux [P] | 2 |
| medium green | |  | |  |  |  | 3 |
| dark green | |  | |  |  |  | 4 |
| grey green | |  | |  |  |  | 5 |
| red | |  | |  |  | Burletta [G], Wine and Roses [G] | 6 |
| light brown | |  | |  |  | Elya [G], Fuju-kaku-no-matsu [G] | 7 |
| medium brown | |  | |  |  | Silver Dane [G] | 8 |
| dark brown | |  | |  |  |  | 9 |
| reddish brown | |  | |  |  | Sir Charles Lemon [G] | 10 |
| **14.** |  | **QN** | **MG/MS/VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Sepals: length** | |  | |  |  |  |  |
| absent or very short | |  | |  |  | Apricot Fantasy [G], Darius [P], Gartendirektor Rieger [G] | 1 |
| very short to short | |  | |  |  | Graziella [G], YBAZ1812 [P] | 2 |
| short | |  | |  |  | Amadores [P], Manglesii [G] | 3 |
| short to medium | |  | |  |  | Nordlicht [P] | 4 |
| medium | |  | |  |  | Labe [G], Poetry [P] | 5 |
| medium to long | |  | |  |  | HORT09 [P] | 6 |
| long | |  | |  |  | Mildred Mae [G] | 7 |
| long to very long | |  | |  |  |  | 8 |
| very long | |  | |  |  | Koromo-shikibu [G] | 9 |
| **15.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Sepals: length/width ratio** | |  | |  |  |  |  |
| very low | |  | |  |  |  | 1 |
| low | |  | |  |  |  | 2 |
| medium | |  | |  |  | Amadores [P] | 3 |
| high | |  | |  |  | Visolotto [P] | 4 |
| very high | |  | |  |  | Koromo-shikibu [G] | 5 |
| **16.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Sepals: shape of apex** | |  | |  |  |  |  |
| strongly acute | |  | |  |  | Koromo-shikibu [G], Nordlicht [P] | 1 |
| moderately acute | |  | |  |  | Mildred Mae [G], Visolotto [P] | 2 |
| obtuse | |  | |  |  | George Hardy [G], Poetry [P] | 3 |
| rounded | |  | |  |  | Amadores [P], HORT18 [G] | 4 |
| truncate | |  | |  |  | Kranenflare [G] | 5 |
| **17.** | **(\*)** | **PQ** | **VG** |  | **(c)** |  |  |  |  |
|  | | **Sepals: colour** | |  | |  |  |  |  |
| green | |  | |  |  | Koromo-shikibu [G], Sachsenstern [P] | 1 |
| reddish green | |  | |  |  | Pink Pearl [G] | 2 |
| red | |  | |  |  | Extraordinaire [G] | 3 |
| **18.** |  | **PQ** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Calyx: transformation into petals** | |  | |  |  |  |  |
| absent | |  | |  |  | Pink Pearl [G], Sachsenstern [P] | 1 |
| incomplete | |  | |  |  | HORT05 [P], Macarena [G], Party Favor [P] | 2 |
| complete | |  | |  |  | Apricot Fantasy [G], Darius [P] | 3 |
| **19.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Flower: type** | |  | |  |  |  |  |
| single | |  | |  |  | Darius [P], Mont Ventoux [P], Pink Pearl [G] | 1 |
| semi-double | |  | |  |  | Fastuosum Flore Pleno [G], HORT10 [P], Tigra [P] | 2 |
| double | |  | |  |  | ILVOAIKO01 [P], Queen Anne`s [G] | 3 |
| **20.** |  | **QN** | **VG** |  |  |  |  |  |  |
|  | | **Flower: fragrance** | |  | |  |  |  |  |
| absent or weak | |  | |  |  | Pink Pearl [G] | 1 |
| medium | |  | |  |  | Mission Bells [G] | 2 |
| strong | |  | |  |  | Sir Charles Butler [G] | 3 |
| **21.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(c),(d)** |  |  |  |  |
|  | | **Flower: diameter** | |  | |  |  |  |  |
| extremely narrow | |  | |  |  | Helma [G] | 1 |
| extremely narrow to very narrow | |  | |  |  | Camilla's Blush [G] | 2 |
| very narrow | |  | |  |  | Diamant weiß [G] | 3 |
| very narrow to narrow | |  | |  |  | Darius [P], Gle010 [G] | 4 |
| narrow | |  | |  |  | Hesse's Nerisha [G], ILVOAIKO01 [P] | 5 |
| narrow to medium | |  | |  |  | Amadores [P], Hans Hachmann [G] | 6 |
| medium | |  | |  |  | Eiger [P], Hachgraz 20 [G] | 7 |
| medium to broad | |  | |  |  | Cynthia [G], Mont Ventoux [P], Verdena15 [P] | 8 |
| broad | |  | |  |  | Pink Leopard [G] | 9 |
| broad to very broad | |  | |  |  | Makeeta's Prize [G] | 10 |
| very broad | |  | |  |  | Pink Pearl [G] | 11 |
| very broad to extremely broad | |  | |  |  | Lem's Monarch [G] | 12 |
| extremely broad | |  | |  |  |  | 13 |
| **22.** |  | **QL** | **VG** | **(+)** | **(c),(d)** |  |  |  |  |
|  | | **Flower: corolla tube** | |  | |  |  |  |  |
| absent | |  | |  |  | HORT36 [P], Koromo-shikibu [G] | 1 |
| present | |  | |  |  | Mont Ventoux [P], Pink Pearl [G] | 9 |
| **23.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c),(d)** |  |  |  |  |
|  | | **Flower: shape of corolla tube** | |  | |  |  |  |  |
| funnel-shaped | |  | |  |  | Mont Ventoux [P], Pink Pearl [G] | 1 |
| tubular funnel-shaped | |  | |  |  | Freya [G] | 2 |
| ventricose funnel-shaped | |  | |  |  |  | 3 |
| campanulate | |  | |  |  | Golfer [G], Lisanne [P] | 4 |
| tubular | |  | |  |  | Jingle Bells [G] | 5 |
| rotate | |  | |  |  | Helma [G] | 6 |
| **24.** |  | **QN** | **VG** | **(+)** | **(c),(d)** |  |  |  |  |
|  | | **Flower: attitude of lateral corolla lobes** | |  | |  |  |  |  |
| inwards | |  | |  |  |  | 1 |
| upwards | |  | |  |  |  | 2 |
| straight | |  | |  |  |  | 3 |
| horizontal | |  | |  |  |  | 4 |
| horizontal to outwards | |  | |  |  |  | 5 |
| outwards | |  | |  |  |  | 6 |
| outwards to downwards | |  | |  |  |  | 7 |
| **25.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c),(d)** |  |  |  |  |
|  | | **Flower: shape of apex of corolla lobes** | |  | |  |  |  |  |
| acuminate | |  | |  |  | Freya [G] | 1 |
| acute | |  | |  |  | Hekla [P] | 2 |
| obtuse | |  | |  |  | HORT36 [P] | 3 |
| rounded | |  | |  |  | HORT09 [P] | 4 |
| truncate | |  | |  |  | Antartica [P] | 5 |
| notched | |  | |  |  | Intermezzo [G] | 6 |
| **26.** | **(\*)** | **QN** | **VG** | **(+)** | **(c),(d)** |  |  |  |  |
|  | | **Flower: undulation of margin of corolla lobes** | |  | |  |  |  |  |
| absent or very weak | |  | |  |  | Graziella [G], YBAZ1812 [P] | 1 |
| weak | |  | |  |  | Filigran [G], Tigra [P] | 2 |
| medium | |  | |  |  | Aquarell [P], Lady Like [G] | 3 |
| strong | |  | |  |  | Grifie [G], Verdena22 [P] | 4 |
| very strong | |  | |  |  | Max Schäme [P], Professor Horst Robenek [G] | 5 |
| **27.** | **(\*)** | **PQ** | **VG** |  | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: main color on inner side** | |  | |  |  |  |  |
| RHS Colour Chart (indicate reference number) | |  | |  |  |  |  |
| **28.** | **(\*)** | **PQ** | **VG** |  | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: secondary color on inner side** | |  | |  |  |  |  |
| RHS Colour Chart (indicate reference number) | |  | |  |  |  |  |
| **29.** |  | **PQ** | **VG** | **(+)** | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: distribution of secondary color on inner side** | |  | |  |  |  |  |
| absent | |  | |  |  | ILVOTOSHI1 [P], Intermezzo [G] | 1 |
| at margin | |  | |  |  | HORT02 [G], Sachsenstern [P] | 2 |
| along veins | |  | |  |  | Gunter Dinger [G] | 3 |
| at tips of corolla lobes | |  | |  |  | HORT05 [P] | 4 |
| blotch on top corolla lobe | |  | |  |  | Mrs Davies Evans [G] | 5 |
| towards base | |  | |  |  |  | 6 |
| at base | |  | |  |  | Theo [P], YBAZ1812 [P] | 7 |
| throughout | |  | |  |  | Mrs Bernice Baker [G] | 8 |
| **30.** |  | **PQ** | **VG** | **(+)** | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: pattern of secondary color on inner side** | |  | |  |  |  |  |
| solid or nearly solid | |  | |  |  |  | 1 |
| flushed | |  | |  |  | Mrs Bernice Baker [G] | 2 |
| speckled and striped | |  | |  |  | Mont Blanc [P] | 3 |
| **31.** | **(\*)** | **PQ** | **VG** |  | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: tertiary color on inner side** | |  | |  |  |  |  |
| white | |  | |  |  |  | 1 |
| yellow | |  | |  |  |  | 2 |
| orange | |  | |  |  |  | 3 |
| pink | |  | |  |  | YBAZ1812 [P] | 4 |
| red | |  | |  |  |  | 5 |
| purple | |  | |  |  |  | 6 |
| violet | |  | |  |  |  | 7 |
| **32.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: distribution of tertiary color on inner side** | |  | |  |  |  |  |
| absent | |  | |  |  |  | 1 |
| at margin | |  | |  |  |  | 2 |
| along veins | |  | |  |  |  | 3 |
| at tips of orolla lobes | |  | |  |  |  | 4 |
| blotch on top corolla lobe | |  | |  |  |  | 5 |
| towards base | |  | |  |  |  | 6 |
| at base | |  | |  |  |  | 7 |
| throughout | |  | |  |  |  | 8 |
| **33.** |  | **PQ** | **VG** | **(+)** |  |  |  |  |  |
|  | | **Flower: pattern of tertiary color on inner side** | |  | |  |  |  |  |
| solid or near solid | |  | |  |  |  | 1 |
| flushed | |  | |  |  |  | 2 |
| speckled and striped | |  | |  |  | YBAZ1812 [P] | 3 |
| **34.** | **(\*)** | **PQ** | **VG** |  | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: main color on outer side** | |  | |  |  |  |  |
| RHS Colour Chart (indicate reference number) | |  | |  |  |  |  |
| **35.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: type of markings** | |  | |  |  |  |  |
| absent | |  | |  |  | Maifeier [G], Verdena10 [P] | 1 |
| spots not touching each other | |  | |  |  | Double Dots [G], Intermezzo [G], Kassandra [P], Pink Pearl [G] | 2 |
| spots touching each other | |  | |  |  | Kriemhild [G], Lamentosa [G], Miss Irma la Douce [P], Party Favor [P] | 3 |
| blotch surrounded by spots | |  | |  |  | Classic Rouge [P], Maroon Sapho [G], Platinum Pearl [G] | 4 |
| **36.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: distribution of markings** | |  | |  |  |  |  |
| upper lobe only | |  | |  |  | Party Favor [P], Pink Pearl [G] | 1 |
| upper third of lobes | |  | |  |  | Maroon Sapho [G], Mont Ventoux [P] | 2 |
| upper half of lobes | |  | |  |  | Kalamaika [G], Miss Irma la Douce [P] | 3 |
| all lobes | |  | |  |  | Double Dots [G], Lady Like [G] | 4 |
| **37.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: location of markings** | |  | |  |  |  |  |
| base only | |  | |  |  | Calford Bounty [G] | 1 |
| base to center | |  | |  |  | Miss Irma la Douce [P], Painting Prince [G] | 2 |
| center only | |  | |  |  | Mont Ventoux [P], Pink Pearl [G] | 3 |
| center to top | |  | |  |  | Humboldt [G] | 4 |
| base to top | |  | |  |  | Extraordinaire [G] | 5 |
| **38.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: number of colors of markings** | |  | |  |  |  |  |
| one | |  | |  |  | Extraordinaire [G], Mont Ventoux [P] | 1 |
| more than one | |  | |  |  | Hachmagic [G], Olga [G] | 2 |
| **39.** | **(\*)** | **PQ** | **VG** |  | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: main color of markings** | |  | |  |  |  |  |
| white | |  | |  |  |  | 1 |
| green | |  | |  |  | HORT10 [P], Intermezzo [G] | 2 |
| yellow green | |  | |  |  | Visolotto [P] | 3 |
| yellow | |  | |  |  |  | 4 |
| yellow orange | |  | |  |  |  | 5 |
| orange | |  | |  |  | Bilko [G] | 6 |
| pink | |  | |  |  | Mont Ventoux [P] | 7 |
| red | |  | |  |  | Classic Rouge [P], Gartendirektor Rieger [G] | 8 |
| purple | |  | |  |  | Amadores [P] | 9 |
| violet | |  | |  |  | Lavender Lace [P] | 10 |
| brown | |  | |  |  | Loyalty [P] | 11 |
| **40.** | **(\*)** | **PQ** | **VG** |  | **(c),(d),(e)** |  |  |  |  |
|  | | **Flower: intensity of main color of markings** | |  | |  |  |  |  |
| light | |  | |  |  | Verdena66 [P] | 1 |
| medium | |  | |  |  | Mont Ventoux [P] | 2 |
| dark | |  | |  |  | Miss Lulu [P] | 3 |
| **41.** | **(\*)** | **PQ** | **VG** |  | **(c)** |  |  |  |  |
|  | | **Stamen: color of anthers** | |  | |  |  |  |  |
| white | |  | |  |  | Extraordinaire [G] | 1 |
| yellow | |  | |  |  | Darius [P], Princess Margaret [G] | 2 |
| pink | |  | |  |  | Bismarck [G], Kassandra weiß [P] | 3 |
| red | |  | |  |  | HORT200101 [P] | 4 |
| purple | |  | |  |  | Consolini`s Windmill [G], Miss Martina [P] | 5 |
| violet | |  | |  |  | Blue Print [G], Frentano [G] | 6 |
| light brown | |  | |  |  | Maifeier [G], Seven Stars [G], Visolotto [P] | 7 |
| medium brown | |  | |  |  | HORT05 [P], Macarena [G] | 8 |
| dark brown | |  | |  |  | Maharani [G], Mont Ventoux [P], Naselle [G] | 9 |
| black | |  | |  |  | Herbert [G], Tigra [P] | 10 |
| **42.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Stamen: color of filaments** | |  | |  |  |  |  |
| white | |  | |  |  | Bismarck [G], Darius [P], Extraordinaire [G], Maroon Sapho [G] | 1 |
| green | |  | |  |  |  | 2 |
| yellow | |  | |  |  | Goldkollier [G] | 3 |
| orange | |  | |  |  | Arneson Gem [G] | 4 |
| pink | |  | |  |  | Mont Ventoux [P], Pink Pearl [G], Professor Hugo de Vries [G] | 5 |
| red | |  | |  |  | HORT18 [G], Tigra [P] | 6 |
| purple | |  | |  |  | Amadores [P], Monsier Marcel Ménard [G] | 7 |
| violet | |  | |  |  | Husky [G], Lavender Lace [P] | 8 |
| **43.** | **(\*)** | **PQ** | **VG** |  | **(c)** |  |  |  |  |
|  | | **Pistil: color of stigma** | |  | |  |  |  |  |
| white | |  | |  |  | Darius [P] | 1 |
| green | |  | |  |  | Goldkollier [G], HORT10 [P], Intermezzo [G], Miss Theodora [P] | 2 |
| yellow | |  | |  |  | Goldglöckchen [G], Loyalty [P], Maroon Sapho [G] | 3 |
| orange | |  | |  |  | Queen Anne`s [G] | 4 |
| pink | |  | |  |  | Mardi Gras [G], Mathis [P], Timeless [P] | 5 |
| red | |  | |  |  | Bismarck [G], Extraordinaire [G], HORT18 [G], Tigra [P] | 6 |
| purple | |  | |  |  | HORT09 [P] | 7 |
| violet | |  | |  |  |  | 8 |
| brown | |  | |  |  | Oase de Lo [P] | 9 |
| **44.** | **(\*)** | **PQ** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Pistil: color of style** | |  | |  |  |  |  |
| white | |  | |  |  | Darius [P], Maroon Sapho [G] | 1 |
| greenish | |  | |  |  | Goldkollier [G], Intermezzo [G] | 2 |
| yellowish | |  | |  |  | Extraordinaire [G], Janet`s Fantasy [G] | 3 |
| orange | |  | |  |  | Arneson Gem [G] | 4 |
| light pink | |  | |  |  | Verdena3 [P] | 5 |
| medium pink | |  | |  |  | Oaze [P], Pink Pearl [G] | 6 |
| dark pink | |  | |  |  | Party Favor [P] | 7 |
| reddish | |  | |  |  | HORT18 [G], Tigra [P] | 8 |
| purple | |  | |  |  | Ostalett [P] | 9 |
| violet | |  | |  |  |  | 10 |

# Explanations on the Table of Characteristics

## 8.1  Explanations covering several characteristics

Unless otherwise indicated, observations should be made at the time of full flowering.

Characteristics containing the following key in the Table of Characteristics should be examined as indicated below:

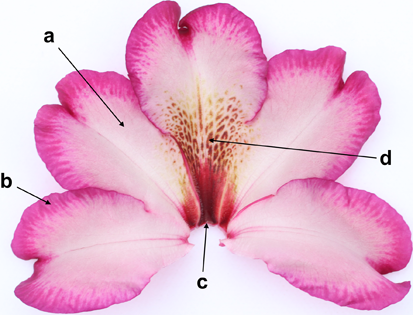
(a) Observations should be made on the fifth or sixth leaf beneath an inflorescence.

(b) Observations on mature leaves should be made   
- at full flowering in varieties with Plant: persistence of leaves: evergreen and pot type varieties or  
- in summer in varieties with Plant: persistence of leaves: deciduous.

(c) Observations should be made on young flowers at the beginning of pollen dispersal.

(d) Observations should be made on the outer corolla. In varieties with Calyx: transformation into petals incomplete and complete, the sepals transformed to petals should be excluded.

(e) Flower color observations  
The main color is the color with the largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darkest color is considered to be the main color.  
In addition to the spatial color distribution, most rhododendrons display overlaying markings. Markings always originate at the top corolla lobe and vary in two dimensions: from the top lobe to all lobes (see Characteristic 34) and between the base of the corolla and the top (see Characteristic 35). Markings are always associated with spots of a corresponding color.  
A blotch not surrounded by spots of a corresponding color should be observed as a secondary or tertiary color.  
  
  
a = main color  
b = secondary color  
c = tertiary color  
d = main color of markings



## 8.2  Explanations for individual characteristics

Ad. 1: Plant: persistence of leaves

Observations should be made in winter.  
  
In general, deciduous varieties lose their leaves in autumn, but may retain a few leaves at the tip of the shoots. Evergreen varieties retain all leaves throughout the year.

Ad. 2: Young leaf: color of upper side

Observations should be made on the upper third of new shoots shortly after sprouting in spring.  
The color should be observed including any hairs, if present.

Ad. 3: Only varieties with Plant: persistence of leaves: evergreen: Young leaf: indumentum on upper side

Indumentum: matted woolly hairs, especially on new growth during the summer, which can be easily wiped off by hand or rain.

|  |  |
| --- | --- |
|  |  |
| 1 | 9 |
| absent | present |

Ad. 4: Young leaf: color of indumentum on upper side

See Ad. 3

Ad. 6: Mature leaf: width

Observation should be made at the broadest part of the leaf.

Ad. 7: Mature leaf: shape of blade

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | ←        broadest part    → | | |
|  |  | below middle | at middle | above middle |
| relative width |  |  |  |  |
| narrow |  |  | 6 linear |  |
| medium |  | 2 lanceolate | 5 oblong | 8 oblanceolate |
|  | 1 ovate | 4 elliptic | 7 obovate |
| broad |  |  | 3 circular |  |

Ad. 8: **Mature leaf: shape of cross section**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| strongly concave | moderately concave | weakly concave | flat | weakly convex | moderately convex | strongly convex |

Ad. 10: Mature leaf: variegation

|  |  |
| --- | --- |
| A close up of leaves  Description automatically generated |  |
| 1 | 9 |
| absent | present |

Ad. 11: Mature leaf: main color of upper side

The color should be observed including any hairs, if present.

Ad. 13: Mature leaf: color of lower side

Observations should be made on the overall colour impression including any hairs and scales that may be present.

Ad. 14: Sepals: length

Observations should be made on the longest sepal.

Ad. 15: Sepals: length/width ratio

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 |
| very low | low | medium | large | very large |

Ad. 16: Sepals: shape of apex

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 |
| strongly acute | moderately acute | obtuse | rounded | truncate |

Ad. 18: Calyx: transformation into petals

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 2 | 3 |
| absent | incomplete | complete |

Sepals with Calyx: Transformation into petals: absent are, if present, clearly distinct in color and texture from the regular corolla.  
Sepals with Calyx: Transformation into petals: incomplete resemble the regular corolla but are irregularly formed and stunted.  
Sepals with Calyx: Transformation into petals: complete display the same color and texture as the regular corolla but may be slightly shorter (“hose-in-hose”).

Ad. 19: Flower: type

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 2 | 3 |
| single | semi-double | double |

A single flower has 5 to 8 petals, which may be fused at the base to a corolla tube, a pistil and 5 to 10 stamen.

In a semi-double flower, some stamens have been transformed completely or partially into petals.

In a double flower, all stamens have been transformed completely into petals. Additionally, the pistil may also have been transformed into petals.

Ad. 21: Flower: diameter

Observations should be made on the broadest part of the flower.

Ad. 22: Flower: corolla tube

In varieties with Flower: corolla tube: absent, the petals are free standing.  
In varieties with Flower: corolla tube: present, the petals are fused at the base.

|  |  |
| --- | --- |
|  |  |
| 1 | 9 |
| absent | present |

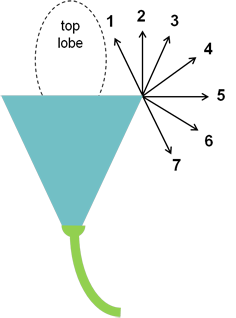
Ad. 23: Flower: shape of corolla tube

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 2 | 3 |
| funnel-shaped | tubular funnel-shaped | ventricose funnel-shaped |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 4 | 5 | 6 |
| campanulate | tubular | rotate |

Ad. 24: Flower: attitude of lateral corolla lobes

Observations should be made on the upper lateral petals. The curvature of the tip should be excluded.  
  
  
An additional picture of practical application will be included in the draft of 2026.  
  
1 = inwards  
2 = upwards  
3 = straight  
4 = horizontal  
5 = horizontal to outwards  
6 = outwards  
7 = outwards to downwards



Ad. 25: Flower: shape of apex of corolla lobes

Observations should be made on the lateral upper petals.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 |
| acuminate | acute | obtuse | rounded | truncate | notched |

Ad. 26: Flower: undulation of margin of corolla lobes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 |
| absent or very weak | weak | medium | strong | very strong |

Ad. 29: Flower: distribution of secondary color on inner side

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 2 | 3 |
| absent | at margin | along veins |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 4 | 5 | 6 |
| at tips of corolla lobes | blotch on top corolla lobe | towards base |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 7 | 8 |  |
| at base | throughout |  |

Ad. 30: Flower: pattern of secondary color on inner side

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 2 | 3 |
| solid or nearly solid | flushed | speckled and striped |

Ad. 32: Flower: distribution of tertiary color on inner side

See Ad. 29

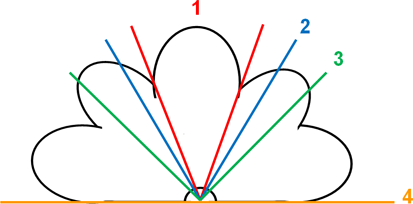
Ad. 33: Flower: pattern of tertiary color on inner side

See Ad. 30

Ad. 35: Flower: type of markings

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 2 | 3 | 4 |
| spots not touching each other | spots touching each other | blotch surrounded by spots |

Ad. 36: Flower: distribution of markings



|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| 1 | 2 | 3 | 4 |
| upper lobe only | upper third of lobes | upper half of lobes | all lobes |

Ad. 37: Flower: location of markings

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 2 | 3 |
| base only | base to center | center only |

|  |  |
| --- | --- |
|  |  |
| 4 | 5 |
| center to top | base to top |

Ad. 38: Flower: number of colors of markings

|  |  |
| --- | --- |
|  |  |
| 1 | 2 |
| one | more than one |

Ad. 42: Stamen: color of filaments

Observations should be made on the upper third of the filaments beneath the anthers.

Ad. 44: Pistil: color of style

Observations should be made on the upper third of the style beneath the stigma.

## 8.3  Additional Explanations on the Table of Characteristics

Growing types  
It may be necessary for separate growing trials to be established for different rhododendron types in order to ensure the satisfactory growth of varieties of those types. The following information is provided with regard to growing conditions for different types of varieties and information which may help in deciding on the type of trial(s) which may be appropriate for a variety:  
  
*Garden types*   
Breeding is done in a large gene pool. Such types of variety encompass all rhododendrons and azaleas which can be grown outside in temperate regions.  
  
*Pot types*   
Breeding is mainly done in gene pools which are different from the garden types. In general, such types of variety are hybrids of *Rhododendron simsii* (Planch.) or tropical types which cannot be grown outside in temperate regions, like hybrids of *Rhododendron* sect. *Vireya* ([Blume] H.F.Copel.). They are only used as houseplants and produced in greenhouses or other sheltered conditions. The more hardy deciduous and evergreen rhododendrons and azaleas grown in pots for patio use, in contrast, should be treated as garden types.

# Literature

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# Technical Questionnaire

|  |  |  |  |
| --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  |  |  | |
|  |  | Application date:  (not to be filled in by the applicant) | |
| TECHNICAL QUESTIONNAIRE  to be completed in connection with an application for plant breeders' rights | | | |
| 1. Subject of the Technical Questionnaire | | | |
| 1.1.1 Botanical name | *Rhododendron* L. | |  |
|  |  | |  |
| 1.1.2 Common name | Rhododendron, Azalea | |  |
| 2. Applicant | | | |
| Name |  | |  |
|  |  | |  |
| Address |  | |  |
|  |  | |  |
| Telephone No. |  | |  |
|  |  | |  |
| Fax No. |  | |  |
|  |  | |  |
| E-mail address |  | |  |
|  |  | |  |
| Breeder (if different from  applicant) |  | |  |
|  |  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  | | | |
| 3. Proposed denomination and breeder's reference | | | |
| Proposed denomination  (if available) |  | |  |
|  |  | |  |
| Breeder's reference |  | |  |

|  |  |  |
| --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

|  |
| --- |
| #4. Information on the breeding scheme and propagation of the variety  4.1 Breeding scheme  Variety resulting from:  4.1.1 Crossing  (a) controlled cross [ ]  (please state parent variety)  (…………………..……………..…) x (……………..…………………..…)  female parent male parent  (b) partially known cross [ ]  (please state parent variety(ies))  (…………………..……………..…) x (……………..…………………..…)  female parent male parent  (c) unknown cross [ ] |
| 4.1.2 Mutation  (please state parent variety) |
| 4.1.3 Discovery and development  (please state where and when discovered and how developed) |
| 4.1.4 Other  (Please provide details) |

|  |  |  |
| --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

|  |
| --- |
| 4.2 Method of propagating the variety  4.2.1 Seed-propagated varieties  (a) Other (please provide details) [ ]  4.2.2 Vegetative propagation  (a) Cuttings [ ]  (b) In vitro propagation [ ]  (c) Budding or grafting [ ]  (d) Other (state method) [ ]  4.2.3 Other  (Please provide details) [ ] |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | | Page {x} of {y} | | Reference Number: | |
|  | | | | | |
| 5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds). | | | | | |
|  | Characteristics | | Example Varieties | | Note |
| **5.1**  **(1)** | **Plant: persistence of leaves** | |  | |  |
|  | deciduous | | Golden Nectarine [G], Weston's Pink Diamond [G] | | 1 [ ] |
|  | evergreen | | Koromo-shikibu [G], Pink Pearl [G] | | 2 [ ] |
| **5.2**  **(7)** | **Mature leaf: shape of blade** | |  | |  |
|  | ovate | | Rusty Dane [G] | | 1 [ ] |
|  | lanceolate | | HORT09 [P] | | 2 [ ] |
|  | circular | |  | | 3 [ ] |
|  | elliptic | | Golfer [G], Mont Ventoux [P] | | 4 [ ] |
|  | oblong | | Amadores [P], Calford Bounty [G] | | 5 [ ] |
|  | linear | | Fuju-kaku-no-matsu [G], Hekla [P] | | 6 [ ] |
|  | obovate | | Linde de Lo [P] | | 7 [ ] |
|  | oblanceolate | |  | | 8 [ ] |
| **5.3**  **(10)** | **Mature leaf: variegation** | |  | |  |
|  | absent | | Pink Pearl [G], Sachsenstern [P] | | 1 [ ] |
|  | present | | Blattgold [G], ROBLEZF [G] | | 9 [ ] |
| **5.4**  **(19)** | **Flower: type** | |  | |  |
|  | single | | Darius [P], Mont Ventoux [P], Pink Pearl [G] | | 1 [ ] |
|  | semi-double | | Fastuosum Flore Pleno [G], HORT10 [P], Tigra [P] | | 2 [ ] |
|  | double | | ILVOAIKO01 [P], Queen Anne`s [G] | | 3 [ ] |
| **5.5**  **(20)** | **Flower: fragrance** | |  | |  |
|  | absent or weak | | Pink Pearl [G] | | 1 [ ] |
|  | medium | | Mission Bells [G] | | 2 [ ] |
|  | strong | | Sir Charles Butler [G] | | 3 [ ] |
|  |  | |  | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | | Page {x} of {y} | | Reference Number: | |
|  | |  | |  | |
|  | Characteristics | | Example Varieties | | Note |
| **5.6**  **(21)** | **Flower: diameter** | |  | |  |
|  | extremely narrow | | Helma [G] | | 1 [ ] |
|  | extremely narrow to very narrow | | Camilla's Blush [G] | | 2 [ ] |
|  | very narrow | | Diamant weiß [G] | | 3 [ ] |
|  | very narrow to narrow | | Darius [P], Gle010 [G] | | 4 [ ] |
|  | narrow | | Hesse's Nerisha [G], ILVOAIKO01 [P] | | 5 [ ] |
|  | narrow to medium | | Amadores [P], Hans Hachmann [G] | | 6 [ ] |
|  | medium | | Eiger [P], Hachgraz 20 [G] | | 7 [ ] |
|  | medium to broad | | Cynthia [G], Mont Ventoux [P], Verdena15 [P] | | 8 [ ] |
|  | broad | | Pink Leopard [G] | | 9 [ ] |
|  | broad to very broad | | Makeeta's Prize [G] | | 10 [ ] |
|  | very broad | | Pink Pearl [G] | | 11 [ ] |
|  | very broad to extremely broad | | Lem's Monarch [G] | | 12 [ ] |
|  | extremely broad | |  | | 13 [ ] |
| **5.7 (i)**  **(27)** | **Flower: main color on inner side** | |  | |  |
|  | RHS Colour Chart (indicate reference number) | |  | |  |
| **5.7 (ii)**  **(27)** | **Flower: main color on inner side** | |  | |  |
|  | white | |  | | 1 [ ] |
|  | yellow | |  | | 2 [ ] |
|  | orange | |  | | 3 [ ] |
|  | pink | |  | | 4 [ ] |
|  | red | |  | | 5 [ ] |
|  | purple | |  | | 6 [ ] |
|  | violet | |  | | 7 [ ] |
| **5.8 (i)**  **(28)** | **Flower: secondary color on inner side** | |  | |  |
|  | RHS Colour Chart (indicate reference number) | |  | |  |
| **5.8 (ii)**  **(28)** | **Flower: secondary color on inner side** | |  | |  |
|  | white | |  | | 1 [ ] |
|  | yellow | |  | | 2 [ ] |
|  | orange | |  | | 3 [ ] |
|  | pink | |  | | 4 [ ] |
|  | red | |  | | 5 [ ] |
|  | purple | |  | | 6 [ ] |
|  | violet | |  | | 7 [ ] |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | | Page {x} of {y} | | Reference Number: | |
|  | |  | |  | |
|  | Characteristics | | Example Varieties | | Note |
| **5.9**  **(29)** | **Flower: distribution of secondary color on inner side** | |  | |  |
|  | absent | | ILVOTOSHI1 [P], Intermezzo [G] | | 1 [ ] |
|  | at margin | | HORT02 [G], Sachsenstern [P] | | 2 [ ] |
|  | along veins | | Gunter Dinger [G] | | 3 [ ] |
|  | at tips of corolla lobes | | HORT05 [P] | | 4 [ ] |
|  | blotch on top corolla lobe | | Mrs Davies Evans [G] | | 5 [ ] |
|  | towards base | |  | | 6 [ ] |
|  | at base | | Theo [P], YBAZ1812 [P] | | 7 [ ] |
|  | throughout | | Mrs Bernice Baker [G] | | 8 [ ] |
| **5.10**  **(36)** | **Flower: distribution of markings** | |  | |  |
|  | upper lobe only | | Party Favor [P], Pink Pearl [G] | | 1 [ ] |
|  | upper third of lobes | | Maroon Sapho [G], Mont Ventoux [P] | | 2 [ ] |
|  | upper half of lobes | | Kalamaika [G], Miss Irma la Douce [P] | | 3 [ ] |
|  | all lobes | | Double Dots [G], Lady Like [G] | | 4 [ ] |
| **5.11**  **(39)** | **Flower: main color of markings** | |  | |  |
|  | white | |  | | 1 [ ] |
|  | green | | HORT10 [P], Intermezzo [G] | | 2 [ ] |
|  | yellow green | | Visolotto [P] | | 3 [ ] |
|  | yellow | |  | | 4 [ ] |
|  | yellow orange | |  | | 5 [ ] |
|  | orange | | Bilko [G] | | 6 [ ] |
|  | pink | | Mont Ventoux [P] | | 7 [ ] |
|  | red | | Classic Rouge [P], Gartendirektor Rieger [G] | | 8 [ ] |
|  | purple | | Amadores [P] | | 9 [ ] |
|  | violet | | Lavender Lace [P] | | 10 [ ] |
|  | brown | | Loyalty [P] | | 11 [ ] |
|  |  | |  | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | | Page {x} of {y} | | Reference Number: | |
|  | | | | | | |
| 6. Similar varieties and differences from these varieties  *Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.* | | | | | | |
| Denomination(s) of variety(ies) similar to your candidate variety | Characteristic(s) in which your candidate variety differs from the similar variety(ies) | | Describe the expression of the characteristic(s) for the **similar** variety(ies) | | Describe the expression of the characteristic(s) for **your** candidate variety |
| *Example* | *Mature leaf: main color of upper side* | | *light green* | | *dark green* |
|  | | | | | | |
|  | | | | | | |
|  | | | | | | |
| Comments | | | | | | |

|  |  |  |
| --- | --- | --- |
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|  | | | |
| #7. Additional information which may help in the examination of the variety  7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?  Yes [ ] No [ ]  (If yes, please provide details)  7.2 Are there any special conditions for growing the variety or conducting the examination?  Yes [ ] No [ ]  (If yes, please provide details)  7.3 Other information  A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.  The key points to consider when taking a photograph of the candidate variety are:  • Indication of the date and geographic location  • Correct labeling (breeder’s reference)  • Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)”  Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (http://www.upov.int/tgp/en/).  [The link provided may be deleted by members of the Union when developing authorities’ own test guidelines.] | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  | | | |
| 8. Authorization for release  (a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?  Yes [ ] No [ ]  (b) Has such authorization been obtained?  Yes [ ] No [ ]  If the answer to (b) is yes, please attach a copy of the authorization. | | | |
| 9. Information on plant material to be examined or submitted for examination  9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.  9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:  (a) Microorganisms (e.g. virus, bacteria, phytoplasma) Yes [ ] No [ ]  (b) Chemical treatment (e.g. growth retardant, pesticide) Yes [ ] No [ ]  (c) Tissue culture Yes [ ] No [ ]  (d) Other factors Yes [ ] No [ ]  Please provide details for where you have indicated “yes”.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?  Yes [ ]  (please provide details as specified by the Authority)  No [ ] | | | |
| 10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct: | | | |
| Applicant’s name |  | | |
| Signature |  | Date |  |
|  | [End of document] | | |