



## APPLICATIONS UNDER EXAMINATION

## PEPPER

### PEPPER

(*Capsicum annuum*)

**Proposed denomination:** 'Chocolony'  
**Application number:** 20-10360  
**Application date:** 2020/10/14  
**Applicant:** Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands  
**Agent in Canada:** Rijk Zwaan Export B.V., Leamington, Ontario  
**Breeder:** Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands

#### Description:

**SEEDLING:** anthocyanin colouration of hypocotyl present

**PLANT:** tall, no shortened internodes in upper part, medium to long internodes on primary side shoots

**STEM:** medium to long, medium intensity of anthocyanin colouration of nodes, weak to medium density hairiness of nodes

**LEAF BLADE:** medium to long, medium to broad, medium to dark green on upper side, ovate shape, medium degree of undulation of margin, medium to strong blistering, moderately convex profile in cross-section, medium glossiness on upper side

**FLOWERING:** begins mid-season

**PEDUNCLE:** semi-drooping attitude

**FLOWER:** anthocyanin colouration of anther present

**STALK:** medium to long, medium thickness

**CALYX:** non enveloping aspect

**FRUIT:** medium to dark green skin before maturity, no anthocyanin colouration before maturity, drooping attitude, very long, narrow to medium width diameter, very large length to diameter ratio, narrowly triangular shape in longitudinal section, angular shape in cross-section (at level of placenta), medium to strong sinuation of pericarp at basal part, medium to strong sinuation of pericarp excluding basal part, slightly wrinkled surface, medium brown at maturity, medium glossiness, shallow to medium depth stalk cavity, moderately depressed apex, shallow to medium depth interocular grooves, predominantly three locules, thin to medium thickness of flesh, no capsaicin in placenta, matures mid to late season

**DISEASE REACTIONS:** resistance to Tobamovirus pathotypes 0, 1, and 1-2 present; no resistance to Tobamovirus pathotypes 1-2-3, Potato Virus Y pathotypes 0, 1, and 1-2 or Tomato Spotted Wilt Virus race P0

**Origin and Breeding:** 'Chocolony' (breeder's reference 35-1228 RZ) originated from a controlled cross conducted between two proprietary lines in 2016 in Spain. From the resulting progeny, the hybrid brown sweet pepper variety 'Chocolony' was selected in February 2017 in Almeria, Spain for its plant characteristics and its fruit quality, skin color, yield, slow aging and shelf life.

**Tests and Trials:** The detailed description of 'Chocolony' is based on the UPOV report of Technical Examination, application number PPS1955, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2020.



Pepper: 'Chocolony'



Pepper: 'Chocolony'

**Proposed denomination:** 'Jack Miller'  
**Application number:** 19-10022  
**Application date:** 2019/06/21 (priority claimed)  
**Applicant:** Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands  
**Agent in Canada:** Rijk Zwaan Export B.V., Leamington, Ontario  
**Breeder:** Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands

**Variety used for comparison:** 'Raptor'

**Summary:** *The anthocyanin colouration of the stem nodes of 'Jack Miller' is of medium to strong intensity while that of 'Raptor' is of medium intensity. The leaf blade margin of 'Jack Miller' has weak to medium undulation while that of 'Raptor' has weak undulation. In cross-section, the leaf of 'Jack Miller' is moderately concave while the leaf of 'Raptor' is flat to moderately concave. The fruit apex of 'Jack Miller' is moderately depressed, but deeper than that of 'Raptor', which is also moderately depressed.*

**Description:**

SEEDLING: anthocyanin colouration of hypocotyl present

PLANT: medium height, no shortened internodes in upper part, medium length internodes on primary side shoots

STEM: medium length, medium to strong intensity of anthocyanin colouration of nodes, medium density hairiness of nodes

LEAF BLADE: medium to long, medium to broad, medium to dark green on upper side, ovate shape, weak to medium degree of undulation of margin, medium to strong blistering, moderately concave profile in cross-section, medium degree of glossiness on upper side

FLOWERING: begins mid-season

PEDUNCLE: semi-drooping attitude

FLOWER: anthocyanin colouration of anther present

STALK: medium length, medium to thick

CALYX: non enveloping aspect

FRUIT: medium to dark green skin before maturity, no anthocyanin colouration before maturity, drooping attitude, short to medium length, broad to very broad diameter, medium length to diameter ratio, square shape in longitudinal section, angular shape in cross-section (at level of placenta), absent or very weak sinuation of pericarp (at basal part), absent or very weak sinuation of pericarp (excluding basal part), smooth or very slightly wrinkled surface, medium orange at maturity, medium degree of glossiness, shallow to medium depth stalk cavity, moderately depressed apex, medium depth interlocular grooves, equally three and four locules, medium to thick flesh, no capsaicin in placenta, matures early to mid-season

DISEASE REACTIONS: resistance to Tobamovirus pathotypes 0, 1, 1-2 and 1-2-3 present; no resistance to Potato Virus Y pathotypes 0, 1, and 1-2 or Tomato Spotted Wilt Virus race P0

**Origin and Breeding:** 'Jack Miller' (breeder's reference 35-1177 RZ) originated from a controlled cross conducted between two proprietary lines in June 2015 in De Lier, Netherlands. From the resulting progeny, the hybrid orange sweet pepper variety 'Jack Miller' was selected in September 2016 for its plant vigour, fruit quality, yield, and resistance to Tobamovirus.

**Tests and Trials:** The detailed description of 'Jack Miller' is based on the UPOV report of Technical Examination, application number PPS1899, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2019 and 2020.



Pepper: 'Jack Miller'



Pepper: 'Jack Miller'



Pepper: 'Jack Miller'

**Proposed denomination:** 'Matthews'  
**Application number:** 19-10023  
**Application date:** 2019/06/21 (priority claimed)  
**Applicant:** Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands  
**Agent in Canada:** Rijk Zwaan Export B.V., Leamington, Ontario  
**Breeder:** Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands

**Variety used for comparison:** 'Hattrick'

**Summary:** *The plants of 'Matthews' are taller than those of 'Hattrick'. The leaf blade of 'Matthews' is long with a medium degree of blistering while that of 'Hattrick' is medium to long with medium to strong blistering. At maturity, the fruit skin of 'Matthews' is darker yellow than that of 'Hattrick'. The fruit of 'Matthews' matures early to mid-season while that of 'Hattrick' matures mid-season.*

**Description:**

**SEEDLING:** anthocyanin colouration of hypocotyl present

**PLANT:** medium to tall, no shortened internodes in upper part, medium to long internodes on primary side shoots

**STEM:** medium to long, weak intensity of anthocyanin colouration of nodes, medium density hairiness of nodes

**LEAF BLADE:** long, broad, medium to dark green on upper side, ovate shape, medium degree of undulation of margin, medium degree of blistering, moderately concave profile in cross-section, medium to strong glossiness on upper side

**FLOWERING:** begins mid-season

**PEDUNCLE:** semi-drooping attitude

**FLOWER:** anthocyanin colouration of anther present

STALK: medium to long, medium to thick

CALYX: non enveloping aspect

FRUIT: medium to dark green skin before maturity, no anthocyanin colouration before maturity, drooping attitude, short to medium length, broad to very broad diameter, medium length to diameter ratio, square shape in longitudinal section, angular shape in cross-section (at level of placenta), absent or very weak sinuation of pericarp at basal part, absent or very weak sinuation of pericarp excluding basal part, smooth or very slightly wrinkled surface, medium to dark yellow at maturity, medium to strong glossiness, shallow stalk cavity, moderately depressed apex, shallow to medium depth interocular grooves, equally three and four locules, thick flesh, no capsaicin in placenta, matures early to mid-season

DISEASE REACTIONS: resistance to Tobamovirus pathotypes 0, 1, 1-2 and 1-2-3 present; no resistance to Potato Virus Y pathotypes 0, 1, and 1-2 or Tomato Spotted Wilt Virus race P0

**Origin and Breeding:** ‘Matthews’ (breeder’s reference 35-1075 RZ) originated from a controlled cross conducted between two proprietary lines in June 2014 in De Lier, Netherlands. From the resulting progeny, the hybrid yellow sweet pepper variety ‘Matthews’ was selected in September 2015 for its plant vigour, fruit quality, yield, and resistance to Tobamovirus.

**Tests and Trials:** The detailed description of ‘Matthews’ is based on the UPOV report of Technical Examination, application number PPS1896, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2019 and 2020.



Pepper: ‘Matthews’ (left) with reference variety ‘Hatrick’ (right)