

Begonia tuberhybrida F<sub>1</sub>

# Nonstop® Mocca

**Red**

Item no.: BT0511P

**Unique - the Only Dark Leaved Tuberous Begonia Series on the Market**

- Full, compact and rounded plant habit
- Uniform and strong branching plants
- Excellent outdoor performance
- Highest transplantable seedlings in the industry
- Free flowering of large double flowers
- Comprehensive color assortment

<b>Crop Time</b>	Spring: 15 - 18 weeks
<b>Height Ø</b>	10 " / 25 cm
<b>Width Ø</b>	9 " / 23 cm
<b>Exposure</b>	Partial shade - Shade
<b>Seed Form</b>	Pelleted Seed
<b>Product Use</b>	Pots, Hanging Baskets, Mixed Containers, Landscape
<b>Family, Origin</b>	Begoniaceae, South and Central America
<b>Minimum Germ. Rate</b>	85%

## TECHNICAL GUIDE

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### Usage

Bedding, patio containers and landscape, window boxes, pot plants

### Sow time

November for flowering pots from April onwards, December-January for flowering bedding plants from May onwards

### Sowing method

1-2 seeds per plug

### Germination

Maintain optimal conditions for seedling development should begin on the day of sowing until root emergence. Expect root emergence in 7-10 days.

### Growing on

Transplant plugs into finished containers with a well drained media, and pH of 5.5 to 6.5. Maintain day length in excess of 14 hours. Continued supplemental lighting will improve plant quality and shorten crop time. Growing temperatures between 68-72 °F (18-22 °C) optimize growth and flowering. Fertilize at 150-250 ppm nitrogen in a well-balanced formula.

### Media

Use a well-drained, growing substrate, pH: 5.5-6.2.

### Temperature

Plug Culture: Maintain 22-23°C (72-73°F) until roots emerge. Higher temperatures exceeding 27°C (80°F) will inhibit germination. Upon root emergence, on day 10-14 reduce the temperature to 20-21°C (68-70°F) until cotyledon expansion. On day 21 the temperature can be reduced further to 20°C (68°F). For irrigation use warm water (above 18°C/64°F) only. Maintaining the ideal temperature will achieve the shortest crop time. On days 28-42 keep the temperature at 20-21 °C (68-70 °F). A slightly lower temperature of 19-20 °C (66-68 °F) will reduce stretch in the seedlings. Tuberous begonias are very responsive to DIF where a 1-2 °C (34-36 °F) DIF will also keep plants compact. Once roots have reached the bottom of the tray after day 42 the temperature can be lowered to 18-19 °C (64-66 °F).

Growing on: After transplanting maintain 18-20°C (64-68°F) nights for the first 14 days or until the roots reach the bottom of the container. Thereafter temperatures may be lowered to 16-18°C (60-64°F). An ADT (average daily temperature) of 19°C (66°F) will give the fastest finished crop. Temperatures below 14°C (57°F) will result in tuber formation and a delay of the crop. A DIF of 1-2°C (34-36°F) will result in a more compact crop requiring little to no growth regulators.

### Fertilization

Plug Culture: Begin fertilizing early, once germination is complete, approximately day 14. Lower rates of feeding at 50 ppm 2-3 times per week will help to size up the seedlings. Under higher light conditions use a 17-5-17 fertilizer and under lower light a 14-4-14. Alternate between a calcium based fertilizer (14-4-14 or 15-5-15) and an ammonium based fertilizer (17-5-17) at 50-100 ppm nitrogen every 2-3 waterings. Fertilizer applications can be gradually increased in the later stages of bulking where a constant feeding at 100 ppm is used. Under high light and long days an ammonium based fertilizer (20-10-20) at 50-100 ppm can also be used.

Growing on: Alternate between calcium based fertilizer 14-4-14 and an ammonium fertilizer 17-5-17 at 100-150 ppm. Keep the media EC at 1.5. Application of potassium nitrate can help to keep the plants more compact. Under higher light and warmer temperatures a fertilizer with additional ammonium can be used.

Stage I Starts with the radicle breaking through the testa. The roots are touching the medium. Ends with fully developed cotyledons.

Stage II Starts from fully developed cotyledons. Ends with the fully developed true leaf or true leaf pair.

Stage III Starts from the fully developed true leaf or true leaf pair and ends with 80% of the young plants being marketable.

Stage IV All young plants are ready for sale and in the process of being hardened off. This stage lasts about 7 days.

The cultural recommendations are based on results from trials conducted under Central European conditions. Different conditions in other parts of the world may lead to deviations in results achieved.

## COLORS OF THE SERIES

Begonia tuberhybrida F<sub>1</sub> Nonstop<sup>®</sup> Mocca



**White**  
BT0506P



**Yellow**  
BT0501P



**Bright Orange**  
BT0502P



**Deep Orange**  
BT0503P



**Cherry**  
BT0510P



**Deep Red**  
BT0505P



**Red**  
BT0511P



**Scarlet**  
BT0504P



**Pink Shades**  
BT0507P



**Light Pink Shades**  
BT0513P



**Mix**  
BT0599P