

## Dianthus Ideal Select™

(*Dianthus chinensis x barbatus*)

### Germination

Light is required for germination. Use a well-drained, disease-free medium with a pH of 5.8 to 6.2, and EC about 0.75 mmhos/cm. Cover the seed with a medium layer of coarse grade vermiculite at sowing. It takes about 3 to 4 days to germinate.

### Plug Production

#### Plug Tray Size

Best produced in 406-cell size plug trays.

#### Sowing

Use a well-drained, disease-free medium with a pH of 5.8 to 6.2, and EC about 0.75 mmhos/cm. Cover the seed with a medium layer of coarse grade vermiculite at sowing. It takes about 3 to 4 days to germinate.

#### Temperature

Germination: 64 to 68°F (18 to 20°C)  
Cotyledon emergence: 65 to 70°F (18 to 21°C) days, 60°F (15°C) nights  
True leaf expansion: 60°F (15°C) days, 55°F (13°C) nights

#### Light

Light is required for germination.

#### Humidity

Maintain 95 to 97% relative humidity during germination until the cotyledons emerge.

#### Fertilization

Beginning at Stage 3, fertilize 2 times per week with 50 ppm N. Increase the nitrogen concentration to 100 ppm after 1 week, and continue this program until the plugs are finished. Maintain the EC at 0.5 to 0.75 mmhos/cm and increase to 1.0 mmhos/cm at Stages 3 and 4. Maintain pH at 5.8 to 6.2 throughout.

#### Growth Regulators

Treat 3 week-old plugs with a foliar spray of Bonzi at 6 ppm for toning. One application in the plug stage is sufficient.

### Plug Production Time

Allow 4 to 5 weeks in 406-cell plug trays.

### Growing On to Finish

#### Container Size

Best grown in packs and 6-in. (15-cm) pots or gallons with 3 plants per pot.

#### Media

Use a well-drained, disease-free soilless medium with a medium initial nutrient charge and a pH of 5.8 to 6.5.

#### Temperature

Provide 60 to 75°F (15 to 24°C) days and 50 to 60°F (11 to 15°C) nights.

#### Fertilization

After plants are established, apply a calcium-based fertilizer or 15-5-15 at 150 ppm, 1 to 2 times per week. Dianthus require adequate calcium in their fertilization program.

#### Growth Regulators

Foliar sprays of 20 ppm Bonzi can be applied 2 to 3 times to control height. The frequency of application is determined by the rate of plant growth, time of the year and location. First application can be done 2 weeks after transplant, followed by subsequent applications at weekly interval.

#### Crop Scheduling (from sow to flower)

**Late Spring/Early Summer:** 9 to 10 weeks

**Late Summer/Winter:** 12 to 13 weeks