

Begonia semperflorens F1

Inferno



Fills in fast! Inferno is the ideal landscape Begonia, as it can be produced as easily and efficiently as a pot crop. Inferno is versatile and vigorous in the landscape. Optimal basal branching adds volume and height to beds. High heat and humidity tolerance mean plantings look good all season.



- ✿ Versatile, vigorous landscape type for display gardens and large containers
- ✿ Plantings fill in fast and full for economical coverage of large areas
- ✿ Self-cleaning flowers mean low maintenance
- ✿ Recommended for production in pots, containers and hanging baskets

 Annual	 Bedding Plant
 Landscaping	 Shade + half shade
 Upright	 80,000/gram
 50 cm	 Normal, pellet
 30 cm	 12-13 cm

Culture Guide

Plug Culture

- Stage 1** (days 1-10) Sow pelleted seed into trays filled with a sterile and well-drained media with an EC of 0.6 or less (1:2 slurry). Optimum pH is 5.5 to 6.0. Do not cover the seed as begonias require light to germinate. Provide 220-1,100 lux in the germination chamber. Maintain a temperature of 22-25°C. Maintain sufficient moisture to melt the pellet. The media should be wet to saturated with 100% relative air humidity.
- Stage 2** (days 11-21) The cotyledons are now visible and roots are beginning to form. Maintain the air temperature at 22-25°C. Supplemental lighting at 5,000-7,500 lux following germination greatly reduces crop time. Strong sunlight (>21,000 lux) will cause high leaf temperature and leaf edge burn. Maintain the media moist but not saturated to promote healthy root development and penetration. Reduce air humidity to 70-80%. Begin feeding at 50-75 ppm nitrogen from a well-balanced calcium nitrate based formulation. Avoid using ammonium nitrate which may inhibit root growth during germination and plug development.
- Stage 3** (days 22-48) The first true leaves are developed and roots are beginning to penetrate the media. Reduce air) temperature to 18-20°C. Begonias are light accumulators and flowering is directly related to the total amount of light calories receive Allow the media to dry slightly between irrigations as begonia roots require high levels of oxygen. Another important point in growing Begonia is to maintain a high air humidity level of 70-80% (relative humidity) to minimize leaf burning during stage 2 and 3. Increase the fertilizer rate to 100-150 nitrogen once or twice per week to maintain an EC level of 1.0-1.5 (1:2 slurry).
- Stage 4** (days 49-56) At the end of stage 4, the plugs should have 2-3 sets of true leaves and the roots should hold the plug media together. Optimum air temperature is 17-20°C to help tone the plugs. Avoid temperatures below 15°C. Maintain the EC level at 1.0-1.5.

Pack & Pot Culture

- In general** Water early in the day if using overhead irrigation to avoid leaf edge burn when leaf temperatures are high.
- Media** Select a sterile and well-drained media with a pH between 5.5-5.8 and low in nutrients (EC level less than 1.0).

Transplanting	Optimum stage is when the seedling roots reach the edge of the plug and having 4-6 true leaves.
Temperature	Optimum growing temperature is 21-22°C during the day and 17-20°C at night. Once established the night temperature may be reduced to 15°C.
Fertilizer	Maintain the media EC between 1.2 to 1.5 (1:2 slurry) by applying 100-150 ppm of nitrogen from a well-balanced calcium nitrate based formulation. The use of Ca/Mg formulations like 15-5-15 work well to supply adequate amounts of magnesium. Tall and stretched plants with few flowers indicates too much or too little phosphorous. Stunted, chlorotic plants with marginal leaf burn indicate a lack of calcium and magnesium. To maintain optimum pH, one may alternate with an ammonium based fertilizer like 20-10-20.
Lighting	Supplemental lighting, up to 26,000 lux prior to transplanting will hasten development and flowering.
Growth regulators	B-Nine/Cycocel (daminozide/chlormequat) tankmixes. Do not use Bonzi (paclobutrazol) as it permanently stunts plant growth.
Pests & diseases	Botrytis.
Crop schedule	12 cm pots: 6 weeks from transplanting. 15 cm pots: 3 plants per pot, 7 weeks from transplanting.

All information given is intended for general guidance only and is believed to be accurate. Cultural details are based on Northern Hemisphere conditions and Sakata cannot be held responsible for any crop damage related to the information given herein. Application of recommended growth regulators and chemicals are subject to local legislations and manufacturer's label instructions.