

Impatiens New Guinea

Description

Name: Petunia cultivars
Family: Balsaminaceae
Series: Color Power®, Mattina

Product use

Use: Bedding and balcony plant
Exposure: Full sun – part shaded, depending climate conditions



Technical recommendations

Potting and Spacing: Recommended potting, from week 3 to 16

Variety	Pot size	Plants/m2
Mattina	10,5 cm	30-35 plants/m2
Color Power®	12 cm	18-25 plants/m2
Color Power®	13-14 cm	16-20 plants/m2
Color Power®	16-18cm	12-14 plants/m2

Substrate: Use a well-drained, disease-free, soilless medium with a good structure and pH 5.8-6.5. Most of the commercial substrates contain added starter charge of fertilizer (0,8-1.0 gr/l) that will provide enough nutrients for the first couple of weeks after planting.

Fertilizer: Start feeding when first roots become visible. During the first 3-4 weeks, use a complete fertilizer 15-10-15 N-P-K with Ca, Mg and micronutrients at 0,8-1,0 gr/l in every watering. pH 5,5-6,2. After this initial period, switch to a fertilizer higher in K, 1,5:1:3 N-P-K depending on the growth. Low amounts of phosphorus produce more compact plants and earlier flowering. The NGI required medium applications of fertilizer. Excess of salinity slows growth, harden the tissue and makes the crop irregular.

Temperature:

Stage	Night	Day
First 4 weeks	19-20°C (66-68°F)	20-22°C (68-72°F)
After week 4	16-17°C (61-63°F)	18-20°C (64-68°F)

With night temperature <16°C (61°F), growth slows down

Water: NGI have a high demand of water but suffer rapidly with overwatering specially during the first stages. Watering should preferably take place in the morning and make sure it dries quickly to prevent diseases. If it's possible, avoid overhead irrigation and fertilizer.

Cultural recommendation

Technical recommendations

Light: High light conditions stimulates growth, branching and flowering. Just after potting keep light levels to 20-30 Klux for 1-2 weeks. After this period, increase the light levels to 40-50 Klux. Under warm climates conditions, shade the crops when temperature > 25-27°C

Pinching: not required.

Growth regulation: PGRs are often not necessary when growing under appropriate conditions and with proper irrigation practices. To control the elongation of the stems, keep a DIF close to 0, reducing the average temperature of the day by setting the temperature to 13-14°C during the first 3h after sunrise.

Pest and diseases: NGI is sensitive to various pest under greenhouse conditions. Thrips, aphids, spider mites, tarsonemus, and white fly are the most common pest. Start with clean material a well disinfected facilities together with a proper pest management program using different control strategies: exclusion, monitoring, biological and chemical control, are the best tools to control these pests.

NGI also sensitive to some diseases like Phythium, Rhizoctonia, Oidium and Myrothecium. Disease management should be addressed by sanitation strategies, proper environmental conditions, biological and chemical control. For the chemical control, follow the registration uses of each product in each region.

Crop schedule * 10,5 cm pot

Week	1	2	3	4	5	6	7	8
	P						F	F

P: Potting. F: Finish plant

Crop schedule * 12 cm pot

Week	1	2	3	4	5	6	7	8	9	10	11	12
	P									F	F	F

P: Potting. F: Finish plant

Crop schedule * 13-14 cm pot

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	P												F	F	F

P: Potting. F: Finish plant

Cultural recommendation

Crop schedule * 16-18 cm pot

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	P															F	F	F

P: Potting. Pi: Pinching. F: Finish plant

* This is a reference time schedule that can vary depending on the variety, growing conditions and region. Schedule start from RC

NOTE: Growers should use the information presented here as guidelines only. Selecta One recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by Selecta One of any products listed herein