



Matthiola Katz Series

(*Matthiola incana*)

Cut Flowers Culture (revised 01/23/21)

Katz Matthiola will produce approximately 50% double-flowering plants. It requires less cold during bud formation, resulting in a more programable series in warmer conditions.

General Information

Cultivation Type	Usage	Stem Length	Timing Group
Tunnel, Field grown	Line	32 in. (81 cm)	N/A

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC (1:2)	Cover Seed
RAW	512	1	4	3-4	5.8-6.2 pH 0.75 mmhos/cm	Yes

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 3-4	Level 3
Temperature	68-72°F (20-22°C)	60-65°F (16-18°C)	60-65°F (16-18°C)	55-60°F (13-16°C)
Light		1,000-2,500 f.c. (10,800-26,900 Lux)	1,000-2,500 f.c. (10,800-26,900 Lux)	2,500-5,000 f.c. (26,900-53,800 Lux)
Fertilizer		Less than 100 ppm N (Less than 0.7 EC)	100 to 175 ppm N (0.7 to 1.2 EC)	100 to 175 ppm N (0.7 to 1.2 EC)

Propagation Key Tips

Katz is not recommended for seedling selection of double-flowering matthiola. Incorporate a preventative fungicide program for downy mildew control.

Growing on to Finish

Target Media pH/EC (1:2)	Fertilizer	Daylength
5.8-6.5 pH 1.5-2.0 mmhos/cm	175 to 225 ppm N (1.2 to 1.5 EC)	-

Crop Scheduling

Cultivation Type	Support	Temperature	Density	Crop Time
Tunnel	Recommended	16-24°C/60-75°F (day) 7-13°C/45-55°F (night)	8-10 plants/ft² (86-108 plants/m²)	8-13 weeks
Field grown	Not needed	16-24°C/60-75°F (day) 7-13°C/45-55°F (night)	10-12 plants/ft² (108-129 plants/m²)	8-13 weeks

Fertilizer Notation

Fertilize twice a week at rate 3 (175 to 225 ppm N/1.2 to 1.5 mS/cm EC) from a nitrate-based fertilizer with low phosphorus. Maintain EC at about 1.5 to 2.0 mS/cm (1:2 extraction) and pH at 5.8 to 6.5. Continue fertilizing until harvest.

Common Problems

Insects: Aphids, Thrips, Caterpillars Diseases: Downy Mildew, Botrytis

Finishing Key Tips

Crop time is dependent on daylength and light intensity. As a general guide, with daylength of 13 hours or more, the crop time will be 8 weeks from planting. Shorter days will slow the crop time, depending on the temperature, up to 13 weeks from planting. Best performance when grown in tunnels. Not recommended for selecting double-flowering plants at cotyledon stage.

Harvest

Harvest when 3-5 florets have opened.

Post Harvest

Matthiola are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer recommended rates.

Vase Life

5-8 days

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed 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 confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

Variety Pictures



Apricot



Blue



Bright Rose



Cherry Blossom



Crimson



Lavender Blue



Light Lavender



Pink



Purple



Ruby



White



Yellow



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