

Viola wittrockiana (Pansy) F1 Cello

Life cycle	Hardy Annual / Biennial
Family / Origin	Violaceae / Europe and Western Asia
Popular uses	Pot and pack, mixed containers, garden, borders and beds
Mature plant height	20-25 cm (8-10")
Mature plant width	20-25 cm (8-10")
Pot size	9-12 cm (4-5") pot and packs
Plants per pot	1 plant per pot 3 plants for 15 cm (6") pots and larger
Sun exposure	Sun or partial shade
Water requirements	Normal
Flowering season	Spring, autumn
Media	A well-drained, porous media is best to prevent over watering pH 5.5-6.2 EC 1.4-1.8 (210-270 ppm N)
Growing temperature	Plants can be grown at 10-15°C (50-59°F) or as cool as possible during warm weather conditions A higher average day temperature will speed up the process
Light	Increasing the day length induces flowering
Fertilizer needs	Balanced N:P:K fertilizer as needed recommended EC 1.4-1.8 (210-270 ppm N) with a calcium-based fertilizer
Crop time	For Autumn sales: 6-10 weeks Early spring (Feb/Mar) sales: 20-24 weeks
Hardiness zone	Z 6-8



Description

A compact, non-stretching, strong basal branching and sturdy plant habit with large flowers on short flower stems

Growth regulators

Chlormequat (CCC), Daminozide (Dazide/B-Nine) or Paclobutrazol (Bonzi)

Common diseases

Pythium, Phytophthora, Leaf Spot and Botrytis

Common pests

Check/monitor for fungus gnats and shore flies during plug production
Aphids and thrips

Pinching

No need

Plug Production

Seed forms	Raw and Primed
Seed count	700-950 seeds/gram (20.000-27.000 seeds/oz)
Recommended plug size	480-264
Seeds cell	1
Vermiculite cover	Normal
Stage 1 Germination	<p>Germination of raw seed takes 4 to 5 days; primed seed takes 2 to 3 days at 18-24°C (64-75°F)</p> <p>Sow the seeds in a well-moistened soil mix with a pH between 5.5-5.8</p> <p>Light is not required for germination until the radicle emerges</p> <p>EC 0.5-1.0 (75-150 ppm N)</p> <p>Pansy is very sensitive to high salt levels (especially high ammonium levels) during germination. Keep the ammonium level below 10 ppm</p>
Stage 2 Stem and cotyledon	<p>Growing medium temperature 15-18°C (59-64°F); the cooler the temperature, the slower and more vigorous the plant growth</p> <p>Reduce the moisture level as soon as the radicles appear!</p> <p>Allow the soil to dry out slightly before watering, for best germination and rooting</p>
Stage 3 Growth and development	<p>Moisture: reduce moisture levels and allow medium to dry between watering</p> <p>Do not let the plants wilt</p> <p>Temperature: 15-18°C (59-64°F)</p> <p>EC 1.4-1.8 (210-270 ppm N)</p>
Stage 4 Ready for transplanting	<p>Moisture: reduce moisture levels and allow the medium to dry between waterings</p> <p>Do not let plants wilt</p> <p>Temperature: 13-15°C (55-59°F)</p> <p>Fertilizers: see stage 3</p>
Plug crop time	4-5 weeks
Approximate finish time	<p>For Autumn sales: 6 weeks</p> <p>Early Spring (Feb/Mar) sales: 16-20 weeks</p>
Special tips	<p>Transplant seedlings in well-drained media with a pH of 5.8-6.0</p> <p>Allow the media to dry slightly between waterings, but do not allow the plants to wilt. Plants can be grown at 10-15°C (50-59°F) or as cool as possible during hot weather</p>