

Cultural sheet: In-determinate (Tall) Tomato Profi-Frutti F1 series

<b>Species</b>	
Variety Name	Profii-Frutti F1 Cherry; F1 Mandarin: F1 Paprika; F1 Grape Red; F1 Grape Yellow
Variety number	550-010 F1 Cherry; 550-020 F1 Mandarin; 550-045 F1 Grape Red; 550-050 F1 Paprika; 550-065 F1 Grape Yellow
Species	Lycopersicum esculentum
Trade name species	In-determinate Tomato
Type	Annual
Family	Solanum
Seed weight	1,8-3,0 gram / 1000 sds depending on seed lot and variety
EU List Variety names	TPFC550010 Cherry; PFGR550045 Grape Red; PFGY550065 Grape Yellow; Other varieties are in process.
Average germination	85-95%
<b>Young Plant</b>	
Nr of Seeds/plug	1 for plug size 1,5-3 cm
Germination days	1-2 days* (biological des-infected seeds can take 2 days more)
Germination temp.	18°-21°C – 64°-70°F Covered and high humidity, no light needed
Grow on days	14-21 days
Grow on temp.	16°-21°CC – 61°-70°F
Min. Grow on temp.	16°C – 61°F (This enlarges the Grow on days period)
Max. Grow on temp.	35°C – 95°F This shortens the Grow on days period, encourage stretching internodes
Optimal D/N temp.	21°C/70°F -18°C/64°F
Soil for sowing	Sowing soil with good drainage, EC 1,5 PH 5,8-6,5
Soil for sowing covering	Vermiculite / soil with open structure /app. 2-3 mm thick
Fertilisation in the plug	2,5 EC with each watering, NPK 15-10-15 and micro elements
Ready to transplant	Full rooted plug with short internodes. Small young flower could be visible
<b>Finish for grower</b>	
Potting soil	Standard soil with good drainage and also good water storage capabilities EC 2,5 PH 5,8-6,5
Pot-size	15-17cm 6-7" as young plant with 1 bunch of flowers. Optimal 17 cm/7" with cage to keep the plant up
Plugs per pot	1
Spacing indoor:	Space the plants when the leaf's are reaching each other.
Indoor	Final distance indoor 40-50 cm/16-20" in the row x 80-100/32-40" between the rows (2-3 plts/m2) for produce/commercial fruit production
Outdoor in open soil	Final distance indoor 50 cm/20" in the row 100 cm/40" between the row (2 plts/m2)
Planting soil	Standard soil with good drainage and also good water storage capabilities EC 1,5 PH 5,8-6,5
Min. Grow on temp.	18°C – 61°F (This enlarges the Grow on days period)
Ideal grow on temp.	21°C-25°C– 70°-77°F
Optimal D/N temp.	23°C/77°F -18°C/64°F
Frost	Plants cannot stand frost.
Watering	Regularly for continues growth, keep the soil moist Watering with minimal. 2,5 EC keeps tomatoes healthy
Crop time to saleable	10-12 weeks after planting, the first bunch starts show colour.
Attention points during plant growing	<ul style="list-style-type: none"> <li>Put 1 stick and a ring around the central stem of the plant to keep the plant in balance when fruits are growing.</li> <li>High temperatures (27°C average D/N) induce pollen infertility/poor fruit set. Within the 21-27°C range a diurnal fluctuation of at least 5-6°C promotes good pollen fertility.</li> <li>Night temperatures of between 16-20°C are ideal. Temperatures below 13°C severely affect the pollination of most cultivars.</li> <li>Insects, especially bees and bumble bees, support fruit set on tomatoes</li> </ul>

	<ul style="list-style-type: none"> <li>• Tomato plants have a high fertilization need. When the EC is too low, the leaf's can turn yellow when the fruits are colouring. This also reduces the taste of the fruit.</li> <li>• When the flowers show, increase the EC in to 3-4, to keep the fertilisation in the pot high enough. (EC in the pot can go up to 7-9)</li> <li>• Tomato plants/leaf's can be made sturdier by spraying (MgSO<sub>4</sub> -bitter salt and Dipotassium-sulphite (K<sub>2</sub>SO<sub>3</sub>)) solutions on the plants (possible combined with other chemicals which need to be used). This has a positive effect on the leaf size and colour</li> <li>• Clay in the soil will stabilize fertilization variation and reduce stretching. 2-5% is advisable, can be increased to 10%. Potassium-phosphate (MKPO<sub>3</sub>) in a concentration of 0,1% improves the quality of tomato plants. This is a good method against phytophthora. For all tomatoes this can lead to a significant reduction of failures.</li> </ul>
--	--

<b>Consumer use</b>	
Use	Indoor-Outdoor snack tomato for commercial production. Keep the side-shoots away to have optimal growing of fruits and central stem.
Unique specifications	<ul style="list-style-type: none"> <li>• Fruit weight; depends on the variety</li> <li>• Each variety has an excellent taste</li> <li>• The fruits have a consistent and good transportability</li> <li>• High temperatures (27°C average D/N) induce pollen infertility/no fruit set. Within the 21-27°C range a diurnal fluctuation of at least 5-6°C promotes good pollen fertility.</li> <li>• Night temperatures of between 16-20°C are ideal. Temperatures below 13°C severely affect the pollination of most cultivars.</li> <li>• Insects, especially bees and bumble bees, support fruit set on tomatoes</li> <li>• Tomato plants have a high fertilization need. After germination watering with 2,5 EC with macro and micro elements supports growth.</li> <li>• Clay in the soil will stabilize fertilization variation</li> </ul>

<b>Pictures</b>	
-----------------	--



2,5 cm/1" plug grafted



PF F1 Cherry



PF F1 Mandarin



PF F1 Paprika



PF F1 Grape Red



PF F1 Grape Yellow



Profi Frutti f1 Outdoor production



In-det tomato indoor production

