

Dianthus x chinensis





Central Europe
North Europe



Aristo
Super Parfait
Diana
Venti Parfait
Telstar

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Finished Plant **Dianthus**

Series 	Leaf colour 	Minimum germ	Seed per plug
Telstar	green	85%	1
Super Parfait	green	85%	1 - 2
Aristo	green	85%	1
Venti Parfait	green	90%	1 - 2
Diana	green	90%	1 - 2

Remarks

If light levels are below 10.000 lux, keep temperatures at 8-10°C.

Calendar Week	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
Temperature dependent culture weeks	P														F									
		P														F								
			P														F							
				P														F						
					P														F					
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Cultivation Advice

Alter temperature setpoints according to light levels. In fall and winter light levels generally are low and temperature setpoints are best decreased for optimum plant quality. Please note that lower temperatures will increase culture time.



Fertilization & Substrate

Under high light conditions apply an ammonium –based fertilizers and under low light conditions calcium bases feed.



Spacing

Depending on culture type. If warm culture mainly after week 4.



Light

Dianthus x chinensis is facultative long day plant – long days enhance flowering



Tips & Tricks

Dianthus is an irradiance plant. Maturity and high light levels will trigger flowering



Irrigation

Alternate between moisture levels moist (3) and medium (2). Allow media to approach level (2) before re-saturating to level (3).



PGR Applications

If needed apply Bonzi as spray at 0,15% to 0,2% or B-nine (daminozide at 0,25% to 0,3%. CCC (Chlormequat chloride) also possible at 0,2% concentration .



Pests

Spidermites, Trips, Fungus Gnats, Shore Flies, Aphids



Diseases






Fusarium, Rust, Botrytis, Alternaria. To reduce disease pressure , provide good air circulation and maintain humidity levels at 40%-70%. Keep foliage dry going into night-time.

Recommendations





Culture week	1	2	3	4	5	6	7	8	9	10	11	12	13
Handling	P			S									
Temperature D/N (warm culture)	14-16°C												
Temperature D/N (cool culture)	8-12°C												
Light	full sun												
Shading	no shading												
Humidity	50-70%												
Moisture	2-3												
pH	5,8 - 6,2												
EC growing medium	1,25-1,5 mS/cm												
EC feeding in mS/cm	1,5-2,0 mS/cm												
Fertilizer	N : K			1 : 1		-		1 : 1,5					

Legend







Soil moisture level

	5	saturated: water is easily observed. When the substrate is touched, water moves out freely from top to bottom.
	4	wet: water is not easily observed. When the substrate is touched, there is very little movement of water from top to bottom.
	3	moist: the substrate is black but not glistening. When the substrate is touched, there is water, but virtually no water movement.
	2	medium: the substrate turns from dark to medium brown. There is no water movement when touched.
	1	dry: the substrate changed color to very light brown.








Culture stages Cuttings / Seeds

	callus development / germ1, radicle emergence
	root development / germ2, cotyledon expansion
	leaf development / plug bulking
	plug finishing / plug finishing










EC zones feeding mS/cm

	1	0,5-1,0 mS/cm
	2	1,0-1,5 mS/cm
	3	1,5-2,0 mS/cm
	4	2,0-2,5 mS/cm
	5	2,5-3,0 mS/cm
	6	3,0-3,5 mS/cm







EC zones growing medium mS/cm (Sonneveld 1:1,5)

	1	0,5-0,75 mS/cm
	2	0,75-1,0 mS/cm
	3	1,0-1,25 mS/cm
	4	1,25-1,5 mS/cm
	5	1,5-1,75 mS/cm
	6	1,75-2,0 mS/cm
	7	2,0-2,25 mS/cm




Temperature zones

	1	0-5°C
	2	5-8°C
	3	8-12°C
	4	12-14°C
	5	14-16°C
	6	16-18°C
	7	18-20°C
	8	20-22°C
	9	>22°C

Light zones

	1	total darkness
	2	short day <12 h/short day treatment
	3	shaded
	4	no-shading / natural light
	5	supplemental light > 14 h/long day treatment
	6	night interruption

Shading

	1	shading > 250 W/m2
	2	shading > 450 W/m2
	3	shading > 750 W/m2

ST	sticking URC	PC	plastic cover
RD	root development	L	lift cover
SC₀	sowing no Vermiculite cover	G	gapping
SC₁	sowing plus light Vermiculite cover	TP	transplanting
SC₂	sowing plus medium Vermiculite cover	T	ypl transplanting
SC₃	sowing plus thick Vermiculite cover	C	cover to protect from frost
RE	radicle emergence	PGR	PGR treatment (spray)
Cot	cotyledon	PD	PGR treatment (drench) or heavy spray
M₁	mist day and night	<	pinch
M₂	mist day - dry night	DB	disbud
W	end mist	P	potting
FC	fleece cover	S	spacing
PC	plastic cover	F	flowering
		LF	leaf removal and maintenance