

annual  
100 s/gr  
Seed form

## Zinnia elegans tall

### CUT FLOWER CULTURE

**culture** open field

**sowing method** DS/TP

**sowing season**

early spring until mid summer

**germ temp.** 20-22°C (68-72°F)

**growing temp.** 15-18°C (59-64°F)

**plug crop time**

3,5 - 5 weeks

**crop duration**

5-6 weeks from planting (TP)

12 - 14 weeks open field (DS)

**seed requirement**

0,5 grams/m<sup>1</sup>

70 gr/100 m<sup>2</sup>

**pests/diseases**

Aphids, Thrips, Sclerotinia, downy mildew. Alternaria blight is the most common and troublesome.

**fertilization (f)**

Medium requirement for a well-balanced NPK fertilizer

### SOWING DETAILS

- Direct sowing (DS):  
Sow 0,5 grams/running meter in rows 30 cm apart (large-flwd) or 25 cm apart (small flwd)

Germination time 10 days

- Pre-sow and transplant (TP):  
early spring (for planting when frost danger is past) until mid summer.

media: sterile sowing mix

Sow : 1 seed per plug (288 tray)

Cover : lightly cover with vermiculite

days 1 - 7

(m) level 4

(t) 20-22°C (68-72°F)

(l) 11.000-27.000 lux (1000-2500 fc)

(f) < 100 ppm N, < 0.7 EC

days 8 - 21

(m) level 4

(t) 15-18°C (59-64°F)

(l) 27.000-54.000 lux (2500-5000 fc)

(f) 100-175 ppm N, 0.7-1.2 EC

### GROWING ON

**soil/media**

any well-drained, humus-rich fertile soil

**netting**

Optional - see cultivation tip.

**pinching**

Pinching is not advised.

**plant density**

large flowered:

20-32 plants/m<sup>2</sup> (2-3 plants/ft<sup>2</sup>)

small flowered: 56-64 per m<sup>2</sup> (5-6/ft<sup>2</sup>)

**moisture (m)**

Keep rather moist, level 3-4.

**temperature (t)**

Optimum growing temperature is 15-18°C (59-64°F). An active climate is beneficial.

**light (l)**

High light, full sun. Zinnia roots are rather sensitive, so protect roots from the sun if necessary.

### CULTIVATION TIPS

- When exposed to windy areas a support around the flowerbeds can prevent flowers to drop or bend.

### NOTE

- Thanks to modern post harvest treatments Zinnia gains popularity as vase-life has increased.

### HARVEST

Harvest when flowers are 60-70% open. For post harvest treatments, see: [www.vbn.nl/en/longevity](http://www.vbn.nl/en/longevity) or [www.vbn.nl/houdbaarheid](http://www.vbn.nl/houdbaarheid)

moisture levels (m): 1 = dry 2 = normal to dry 3 = normal 4 = moist 5 = wet

This information is for general guidance only, and is in some cases specific for West European conditions. No guarantee is given for the result of the crop, nor is liability accepted for the consequences of applying the indications given.