

Matthiola incana **GOLDCUT Mix**

Tenweeks -, Brompton -, Hoary Stock, Gillyflower

Culture guide

Uses:

cut and dried flower production

Exposure:

Sun

Garden height:

30" / 75 cm

Crop time:

10-14 weeks

Sow time:

Indoor forcing with additional lighting is possible all season; November for flowering from April onwards (without additional lighting); March for flowering from June onwards; Outdoor forcing (frost free): April-July for cut flower production

Sowing method:

2-3 seeds per plug

Germination:

7-14 days at 65-70 °F (18-21 °C). Cover seed lightly after sowing. Avoid over watering to control stretch and disease.

Growing On:

Transplant plugs after 4-5 weeks. Grow on at 58-62 °F (14-16 °C).

Media:

Use a well-drained, growing substrate with 30 % clay, 0-15 % parts (e.g. barks), 1-3 kg/m³ complete balanced fertilizer, 0-2 kg/m³ slow release fertilizer (3-6 months), iron-chelate, micronutrients, pH: 5.5-5.8.

Field: loamy soils, with a good drainage and high nutrition level. Standard fertilization: 80-100 g/m² of a slow release fertilizer.

Temperature:

Grow at 14-15 °C or outdoors. For development of the flowers the temperatures should be decreased to 10-12 °C. Temperatures below 10 °C will promote the risk of fungi infection and temperatures above 18 °C will inhibit the flowering. For cultivation in foil tunnel take care of proper temperature control in summer, because *Matthiola* grows preferably at temperatures below 20 °C. *Matthiola* does not tolerate frost.

Fertilization:

High fertilization levels are required. Fertilize the crop weekly with 100-150 ppm nitrogen (at 2 kg/m³ slow release fertilizer in substrate), using a potassium balanced fertilizer (N: K₂O-ratio: 1:1,5). Avoid high ammonium levels and avoid high fertilizer concentrations, it is advisable to fertilize several times with low concentration weekly. The CO₂ fertilization (800 vpm) stimulates the growth in winter and spring. Optimum time for CO₂ fertilization: 3-6 weeks after sowing.