**Lupinus (Lupine)**

**30ct Plug**
- Container: Trade 1 Gallon Container
- Finish: 8-10 weeks
- When To Plant: Spring

**72ct Plug**
- Container: Trade 1 Gallon Container
- Finish: 10-12 weeks
- When To Plant: Late summer or spring

**Growing Temperature:**
- 60-65° F

**Soil pH:**
- 5.8-6.2

**Fertility:**
- Feed lightly at each watering with 75-100 ppm N.

**Pests and Diseases:**
- Aphids, thrips and whiteflies are the most common pests.
- Ascochyta, Colletotrichum, downy mildew, powdery mildew and rust can cause foliar diseases on lupines. Crown and root rots may be caused by the pathogens Fusarium, Phytophthora, Pythium and Rhizoctonia.
- It is best to avoid having moisture remain on the plant for too long. Water in the morning to allow the foliage to dry before sunset.

**PGRs/Pinching:**
- Multiple spray applications of 2,500-ppm daminozide (B-Nine or Dazide), 20-ppm paclobutrazol (Bonzi, Paczol or Piccolo), or 2,000-ppm daminozide + 3-ppm uniconazole (Concise or Sumagic) at seven-day intervals.

**Holding Temperature:**
- 50-60° F

**EC Level:**
- 1.5-2.0

**Vernalization:**
- Lupines are cold beneficial but we do recommend vernalizing them for 8-10 weeks at temperatures below 45° F. This greatly increases the bud count and uniformity.

**Potting and Timing:**
- Plant lupines in a high quality, well-drained, bark based media.

**Moisture:**
- Moderate to slightly dry. When irrigation is needed, water thoroughly and then allow media to dry slightly.

**Planting Level:**
- The top of plug should be level with the soil line.

**Lighting:**
- Long days (14-16 hours) are required to force into flower.

**Grower Tips:**
- Under long days lupines will flower in roughly 10-12 weeks. Force under cool temperature for best results.