AGRO MIX® N7

AGRO MIX® N7 is a bark based soil mix that provides superior drainage and gas diffusion. It is specially designed for the production of woody plants in outdoor containers (nursery). It is suitable for intensive production with short irrigation cycles.

AGRO MIX® N7 contains aged softwood bark and sand which promotes drainage in addition to providing weight to the soil. In addition, bark breaks up soil particles thus facilitating root growth.

AGRO MIX® N7 also contains compost which adds organic matter and nutrients. The compost itself contains nutrients but it also has a buffering capacity which allows it to absorb nutrients from another source (e.g., fertilizer), to store it and release it gradually thereafter. Our research shows that compost is an excellent growth stimulator offering comparable or superior results to other growth stimulators frequently used on the market.

**BENEFITS**

- Contains compost (growth stimulator) and aged bark
- Ideal soil mix for woody plants in outdoor containers (nursery)
- Promotes rapid rooting and sustained growth

**STORAGE OF SUBSTRATE DELIVERED IN BULK**

We can sometimes observe an increase of temperature in bulk heaps. A lack of aeration in the heaps, an increase in humidity, the presence of compost, fertilizer or micro-organisms in the mix may explain this increase of temperature.

What can be done to prevent heaps overheating?

- **Store your substrate in piles less than 6 feet high** (4 feet or less if stored for a long period).
- **Spread out the substrate before potting thereby releasing excess heat and compact it to remove the oxygen.** Normally, handling during potting causes a drop of substrate temperature.
- **Water the crop as soon as possible after planting.**

**INGREDIENTS:**
Sifted aged softwood bark, FIBRO MOSS® peat, compost, sand, limestone, balanced nutrient charge with micronutrients, gypsum

**APPLICATIONS:**
HIGHLY RECOMMENDED:
- Nursery
  - Perennials, trees and shrubs
- Fall garden mums
- Multi-season container berries (3 years) Ex: raspberry

N.B. This soil mix is ideal for a production of 2-3 years maximum. If it is not the case, it is preferable to use a soil mix adapted for a long-term production. To do this, contact your sales representative.
HANDLING INSTRUCTIONS

1. This soil mix is ready to use. Therefore, it is not necessary to moisten it before use. The humidity of this soil is between 55 to 60%. This is mainly due to the presence of compost, bark in the soil mix.

2. Proceed with planting.

3. Pack slightly the soil to prevent it from settling with the first watering. Since this is a bark based soil mix, a light compaction is normally sufficient. The presence of sand inside the barks increases soil mix density. Therefore, it is easier to compact than lighter soil mixes. We suggest you compare the number of pots filled with the potting chart (www.fafard.ca/en/growers/potting-chart/) to determine if compaction is adequate.

4. Water. After transplanting, water frequently in small doses, especially large containers such as hanging baskets.

5. During production, monitor pH, electrical conductivity, complete chemical analysis, foliage if necessary. Follow the usual recommendations for greenhouse temperature, watering, fertilization and pH levels.

During the active growing season, we suggest the incorporation of a slow release fertilizer high in nitrogen and low in phosphorus. At the end of the summer, it is recommended to fertilize with a fertilizer high in potassium to promote hardening off.

If you requested AGRO MIX ® N7 soil mix with incorporation of a slow-release fertilizer, we recommend you to use it immediately after its reception.

AVAILABLE SIZES:

- Bag 42 litres
- Tote 2.5 yd³
- Big bale 115 ft³ (4.25 yd³)
- Bulk (yd³)

CHÉMICAL PROPERTIES:

| Targeted analysis standards | pH | Electric Conductivity (mmhos/cm) | N-NO₃ (ppm) | P (ppm) | NH₄⁺ (ppm) | K (ppm) | Ca (ppm) | Mg (ppm) | Cl⁻ (ppm) | B (ppm) | Cu (ppm) | Fe (ppm) | Mn (ppm) | Zn (ppm) | S (ppm) | Na (ppm) | Al³⁺ (ppm) |
|-----------------------------|----|-------------------------------|-------------|--------|------------|---------|---------|---------|----------|--------|---------|---------|--------|--------|--------|--------|
|                             | 5.8| 1.1                           | <10         | 20     | <10        | 150    | 75      | 25      | <100      | 0.2    | 0.04     | 0.3     | 1      | 0.03    | <300   | <25     | 0.5     |

PHYSICAL PROPERTIES:

Legend: from 1 to 10 (10 = best)
- Drainage: 5
- Aeration: 6
- Water retention: 5
- Gas diffusion: 6

Density: 350-450 g/l

DEFINITIONS:

Drainage
(Saturated hydraulic conductivity - Ksat)
Measure the efficiency of the water flow through a substrate. The higher the conductivity is, the quicker the water reaches the roots.

Aeration
(Air Porosity - AP)
Volume of air that the substrate contains after free drainage of the macropores.

Water retention
(Easy Available Water - EAW)
Volume of water retained by the mesopore (medium size pores). Plants may pick up that water without spending too much energy which is very productive.

Gas Diffusion
Speed of movement of the air. The higher the gas diffusion is, the faster the oxygen will reach the roots.