

## Types of Terra Plug Mixes and Technical Specifications:

Terra Plug is a physically bonded media manufactured using a unique horticultural-friendly technology. Terra Plugs are made from peat and coco fibers and contains a fertilizer starter charge. Terra Plugs are available in three different mix options providing different air and water holding capacities to cater the propagation needs of various crops.



### The chemical and physical properties of the three Terra Plug Mixes:

pH and Electrical Conductivity (mS/cm)

**Total Porosity:** Percent total pore space on a volume basis (v/v).

**Air Porosity:** Percent volume of drainable pore space on a volume basis (v/v).

**Water Holding Capacity:** Percent moisture on a volume basis (v/v) after saturation and drainage.

**Moisture Content:** Percent moisture on a weight basis

Terra Plug: Drainage Mix	pH*	EC (mS/cm)*	Avg. Total Porosity (%)**	Avg. Air Porosity (%)**	Avg. Water Holding Capacity (%)*	Moisture Content (%)*
1: Standard	5.4 – 5.9	0.4 – 0.6	88	8	80	70 – 80%
2: High	5.4 – 5.9	0.4 – 0.6	84	9	75	70 – 80%
3: Extra High ***	5.4 – 5.9	0.4 – 0.6	80	10	70	70 – 80%

\*Initial values

\*\*Parameters were determined on a cylinder of plug measuring 4 cm in height and 7.6 cm in diameter using the North Carolina State University Porometer.

\*\*\*Only available in Europe

## Descriptions and general guidelines:

### Terra Plug Mix 1: Standard Drainage Mix

This mix has the highest water holding capacity among all the three options. This has an average air porosity and water holding capacity of 8% and 80%, respectively. This mix works well for propagation of most of the crops (using seed or vegetative cuttings) where media tends to dry out faster because of higher temperatures during propagation. *For example: propagation during summer months or for propagation in warmer climatic zones.*

### Terra Plug Mix 2: High Drainage Mix

This mix is an intermediate between the three options. This mix has an average air porosity and water holding capacity of 9% and 75%, respectively. This mix works well for propagation of most of the crops (using seed or vegetative cuttings) where media tends to dry out slower because of lower temperatures during propagation. *For example: propagation during winter months or for propagation in colder climatic zones. This media is also recommended for crops that prefer moderately dry conditions in the root zone.*

*Example: begonias, some succulents, woody crops etc.*

### Terra Plug Mix 3: Extra High Drainage Mix

This is the driest mix among all the three options. This mix has an average air porosity and water holding capacity of 10% and 70%, respectively. Works well for propagation of crops that prefer much drier conditions in the root zone. *Example: anthurium, bromeliads, succulents, woody crops, etc.*

*Note: Terra Plug Mix 1 and Mix 2 can be used interchangeably depending on the location, season, and greenhouse conditions.*