

# RHINO



# DRYING BEADS® DRYSTORE®

## Drying Consumables

**Drying Beads®** are a crystalline type of clay and thus almost indestructible. They contain pores with a very precise pore size (3Å) and can therefore only absorb water molecules. The beads will continue to absorb water until all of their pores are filled, up to 20-30% of their initial weight.

**DryStore®** is a smart and simple way for drying and storing your seeds based on Drying Beads® technology. Therefore we designed a system that is able to have a real-time monitoring system by a built-in hygrometer giving a quick check on relative humidity over the entire humidity range from 10 to 100% RH and temperature inside the container. This digital monitoring provides the indicators and controls necessary to set the desired humidity and temperature level and to measure the actual humidity level inside the container. This makes the DryStore® system in a very efficient and cost-effective way, to maintain seed viability to store seed for a period of several months to a year or even more.



### OPTION

**Drying Beads®** available in different packing sizes:

- Aluminum foil of 1 kg
- Steel drum of 25 kg
- Steel drum of 50 kg
- Steel drum of 125 kg

**DryStore®** available in different sizes:

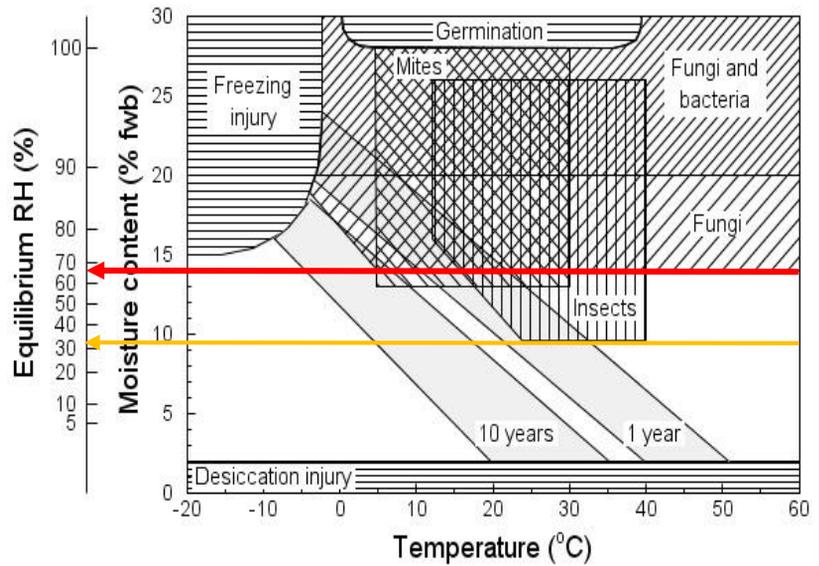
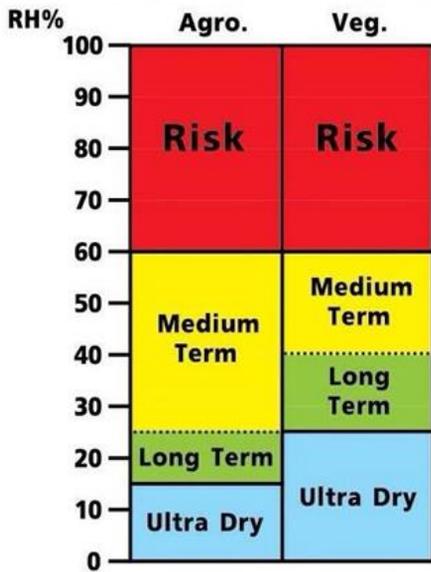
- Plastic sealed container: 1.6L (incl. beads 100 gr), 8.4 L, (incl. beads 500 gr) and 16 L, (incl. beads 1 kg).
- Steel sealed drum: 50 L, (incl. beads 4 kg) and 100 L, (incl. beads 8 kg).

Choose either a standard size or combination of Drying beads® and DryStore® to meet your specific needs.

### FEATURES

- A hermetic container with built-in hygrometer to contain/mix a seed and Drying beads® together in order to dry or maintain seed to safe level.
- User can monitor a temperature and humidity inside a hermetic container and be able to set desired humidity and temperature level for either for a seed drying or storing purposes.
- User can take replace or add more Drying beads® in the container once a humidity over the desired level.
- User can create and optimize a right condition for drying or storing seed for different crops.
- Replaceable lithium battery and beads able to regenerate.

## Smart & Simple Seed Storage System



Roberts EH (1972) Viability of Seeds. Chapman and Hall Ltd., Syracuse, NY, pp 14-58.

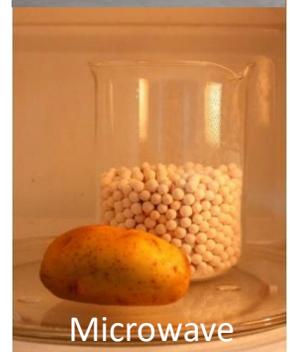
### TECHNICAL INFORMATION

Refer storage condition to maintain, vigor and longevity by build-in digital hygrometer

- **Agro-seed:** RH lower 25% (long term storage) if over 60% should regenerate the Drying Beads®
- **Vegetable seeds:** RH lower 40% (long term storage) if over 60% should regenerate the Drying Beads®

### Regeneration of Drying Beads®

- **Oven:** at 200-250°C for 2-3 hours (thickness 5-10 cm) places in close container to cool down the beads before reuse it. Temperature not over 300 °C.
- **Microwave:** at 600-800 watt (thickness 3-5 cm) every 3 minutes open microwave for 10 seconds to avoiding the overheating and continue till 10-12 minutes, then placed regenerated beads into a close container to cool down the beads before reuse it.
- **DON'T FORGET** to put one potato/carrot in order to avoid exposure due to overheating during regeneration the beads in the microwave.



**CAUTION!!** Do Not add beads directly to very wet seeds such as cucumber, melons or tomato seeds immediately after washing. Dry the seeds in air first to remove excess water before mixing directly with beads. Otherwise the exothermic reaction (above 100°C) of Drying Beads® will take place.

For further questions, please do not hesitate to contact us

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