

# HYDROGEL

super absorbent polymer for agriculture



Enhanced  
Water Retention



Improved  
Plant Growth



Efficient  
Nutrient Use

**STARX Hydrogel** is a three-dimensional network of hydrophilic polymers that absorb and retain water or nutrients—up to hundreds of times their own weight. Once in the soil, it forms a moisture reservoir that gradually releases water to plant roots.

• **Efficient Water Management**

Absorbs rain or irrigation water and slowly releases it, reducing watering needs.

• **Protects Against Drought**

Maintains consistent soil moisture, shielding plants from heat and dryness.

• **Boosts Root Health**

Creates a moist environment around roots, supporting deeper, healthier growth and nutrient absorption.

• **Enhances Germination**

Delivers uniform moisture for faster and even seed germination.

• **Reduces Nutrient Loss**

Prevents nutrients from washing away, ensuring better availability to plants.

• **Improves Soil Structure**

Increases aeration and loosens compacted soil, promoting strong root systems.

**COMMON USES**

- Mix with potting soil for houseplants and garden beds.
- Blend into seed starting mixes.
- Use in sandy or poor soils to improve water-holding capacity.
- Ideal for hanging baskets, container plants, or dry regions.

**STARX Hydrogel** - Superabsorbent polymer (SAP), used in agriculture, serves as a transformative tool for soil enhancement, root hydration, water conservation, and improved resilience against drought stress. Its unique properties significantly contribute to better seed germination and seedling development, fostering overall farm productivity and success.

**DOSAGE**

General	3g / L substrate or soil
Under grass carpets	50g - 100g / m <sup>2</sup>
Lawn sowing substrate preparation	3kg / m <sup>3</sup>
Planting trees and shrubs	Conifer trees - 400g / m <sup>3</sup> Deciduous trees - 800g / m <sup>3</sup> Coniferous bushes - 15g / plant Deciduous shrubs: 30g, 60g, 120g / plant* *(depending on size)
Seedling	3g - 4g / seedlings - mix with the substrate and thoroughly pour  200g / 10L of water - for preparation before hydrated solution and then 400ml - 600ml / seedlings - to the roots and fill with clay and pour



**STARX PTE LTD** UEN No. : 201526417D

📍 15 Yishun Industrial Street 1 #08-20, Win5, Singapore 768091

☎ +65 8820 7616 / +65 9055 1616

✉ sales@starx.com.sg



www.starx.com.sg

Packing Size:  
**500G, 1KG**