

# GROW-TECH<sup>Inc.</sup>

Advanced Rooting Substrate Technology



## Hydroponics, Micro and Leafy Greens

Grow-Tech Manufactures Rooting Substrates for Your Crops



# Rooting Substrates for Your Crops

Growers all over the world rely on Grow-Tech's range of products to give their crops a stronger start. Whether you are a micro or leafy green grower or have acres of hydroponic lettuce, you can be sure that our substrates are providing the optimal environment for rooting and growing.

We design our products around your crop.

## For Microgreens and Leafy Greens we developed:

- BioStrate®
- PUREgrown™ hemp-felt



## For the use in Hydroponic, Aquaponic and Aeroponic systems:

- FlexiTrays®
- FlexiPlugs®



Edwin Dijkshoorn,  
CEO of Grow-Tech

"What drives our product design is solving the challenges the grower faces at making a good and healthy start for his crop."



## Growing Microgreens & Leafy Greens

The number of companies growing microgreens has increased tremendously in the last 5 years. These tiny plants produce up to 40 times more nutrients than their mature counterparts. Their color, texture and intense flavor have made them very popular with consumers.

A clean soil-free product at harvest is important both in terms of appearance and food safety, which is why stabilized growing media is so popular with microgreen growers. However, most of these products are made of synthetic materials. Grow-Tech has spent many years in developing biobased alternatives for this crop. The resulting brands, BioStrate® and PUREgrown™, are both very suitable for a wide range of microgreens varieties and growing methods.

Grow-Tech has a selection of media types and thicknesses for the growing of microgreens. Our sales staff can work with you to find the one that performs best in your production program.



Jamie Chittum  
Director of Business Development

"Our company is continuously working on finding new and sustainable sources for growing your crops."







## BioStrate® Felt:

- BioStrate® 185 gsm (microgreens)
- BioStrate® 300 gsm (microgreens and leafy greens)

This lightweight biobased textile absorbs and retains water while providing an inert environment for dense healthy root development. BioStrate® 185gsm is compostable.\* However, it will maintain its structural integrity for the life of your product and won't clog filters. Custom widths are available. Please contact us to discuss your specific crop needs.

## Benefits:

- Holds the optimal amount of water & air
- Roots are supported
- Compostable\* (185gsm ONLY)
- Ready to plant, no pre-treatment required
- Custom widths available
- Lightweight



**COMPOSTABLE**  
IN INDUSTRIAL FACILITIES

Check locally, as these do not exist in many communities. **Not suitable for backyard composting.** CERT # 10528501

\*This product meets ASTM D6400 and is intended to be composted in a commercial composting facility operated in accordance with best management practices.



## PUREgrown™ Hemp-felt:

- PUREgrown™ hemp/flax-felt 450 gsm (for professional growers only)\*
- PUREgrown™ hemp-felt 750 gsm (micro greens and leafy greens)
- PUREgrown™ hemp-felt 1300 gsm (leafy greens)

This OMRI Listed 100% hemp product is made from fibers grown without the use of pesticides, herbicides or synthetic fertilizers. PUREgrown™ hemp-felt is designed to transport water evenly throughout the entire medium and maintain a perfect ratio of water and air for the development of healthy root systems. Custom widths are available.

### Benefits:

- Holds the optimal amount of water & air
- OMRI Listed (\*only the 750 and 1300gsm)
- Made from natural fibers
- Ready to plant, no pre-treatment required
- Lightweight
- Easy to use



"The most rewarding part of the job is a happy customer."



Eric Waterman  
Account Manager East



## Vegetables and Herbs in Our Media

Your hydroponic growing media should do several things: wick and retain water, provide a stable pH, drain well and not fall apart so your system stays clean. Grow-Tech offers the hydroponic grower several product lines with these characteristics.

Our FlexiPlug® and FlexiTray® growing medium is optimized for all industry standard systems: Nutrient Film Technique, Ebb & Flow, Deep Water Raft, Aeroponic, and Drip.

We have been working with hydroponic and aquaponic companies and our product is proven to work for all systems.

### For Deep Water Culture/ Floating Rafts:

FlexiTrays® and FlexiPlugs®:

The FlexiTray® advantage is that they are easy to use. The trays are machine-filled and dibbled with a hole for the seeds. Careful watering is essential in the germination phase due to the plug's superior water holding capacity. The 128 and 162 trays are suitable for a floating raft system and are efficient with lettuce and herbs such as basil and watercress.

FlexiPlugs® are often used by customers who like to use their own trays. The 169 and 225 sized plugs fit in a floating raft.





### For NFT Systems:

NFT systems (Nutrient Film Technique) need a product that retains its structure to prevent your filters from clogging. There are many different types/sizes of NFT systems and the holes in channel covers have several different diameters. Grow-Tech offers a variety of sizes for the industry to meet your needs.



### For Vertical Towers:

Vertical farming, like the use of ZipGrow Towers, is a trend which is growing rapidly in the US and abroad. For this system, the FlexiPlug® 169 and 225 are ideal sizes.

Other dimensions will also work depending on the design and cell requirements of the vertical growing system.

"At Grow-Tech, we have an incredible amount of knowledge and experience in growing and making products to suit your crops."



Siebe Streekstra  
Account Manager West



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## Contact us to get started!

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PUREgrown<sup>TM</sup>  
products

FlexiPlug<sup>®</sup>

FlexiTray<sup>®</sup>

