



## Our Vision

To be better than the best...

Textile Technology Company to work with and for

The Yeh Group consistently innovates to create the best products and strives to create more high performance products for our customers. Our diverse team offers rich industry experience, challenging the way we approach developments to ensure results. We take on new equipment, technologies, and processes to continually differentiate our products and create value for our customers.

We create innovative products that use sustainable raw materials, processes, and technologies. Through innovation, recycling, and investments we are taking a leadership position to reduce waste, water, and harmful chemicals from textile processing. We monitor everything (energy, wastes, water consumption, etc) in order to become more eco-efficient every year

*"We have pioneered multiple new technologies, however Drydye™ fabric sets a new standard for eco efficiency and will lead the industry into zero effluent."*

David Yeh

## Summary of Key Advantages of Supercritical Dyeing



- Elimination of water consumption
- Elimination of wastewater discharges
- Wastewater treatment process eliminated
- Elimination of drying and dryer effluent
- Reduction in energy consumption
- Reduction in air emissions
- Dyeing time significantly reduced
- Pure dyes used. Surfactants and auxiliary chemicals in dyes eliminated
- Dye utilization is very high with very little residue dye.
- Unused dye can be recaptured and reused
- Approximately 95% of CO2 can be recycled
- Fewer re-dyes are required and color correction is easier



THE YEH GROUP (FTA, Tong Siang, Drydye)

# drydye™

Saving Water + Premium Performance

Fabrics so advanced they set a new Standard for Eco Performance





**Drydye™ technology uses 50% less energy and pure dyestuffs with no chemical additives; this clean process creates advanced fabrics that produce no polluted effluent in the dyeing process.**

Drydye™ Technology uses a supercritical fluid process to eliminate all water in the dyeing process. The supercritical fluid CO2 causes the polymer fiber to swell allowing the pure dyestuff to easily diffuse within the polyester.

Carbon Dioxide is considered the best supercritical fluid as it is naturally occurring, chemically inert, and it does not release volatile organic compounds. The Drydye™ process gives excellent results as far as dye levelness and shade repeatability.

An independent life cycle assessment confirmed that Drydye™ technology significantly reduce the carbon footprint of polyester fabric and produces no toxic discharge in the dyeing process.

Traditional dyeing of polyester uses approximately 50 to 100 liters of water per kilo of fabric in pretreatment, dyeing, and post treatment (drying).

Unfortunately, the water becomes contaminated with surfactants and other chemicals that are used to bind the dyestuff to the polymer. In order to properly treat the water, dye houses use reverse osmosis or sophisticated filtration to separate the chemicals that would pollute ground water.

This process is both energy intensive and in many cases avoided to save money. The textile industry is currently one of the top polluters of drinking water.

Supercritical fluid CO2 has become a mainstay in extraction processes in the food industry (decaffeination, extraction of hops) and apparel dry cleaning, where it has proven to be the best, gentlest, most thorough cleaning method now available.

Carbon dioxide is also considered the best supercritical fluid for the dyeing process. It is naturally occurring, chemically inert, relatively inexpensive and readily available.

**Other attributes of carbon dioxide are:**

- **It is an inexhaustible resource.**
- **Its use does not release volatile organic compounds (VOCs).**
- **It is biodegradable as a nutrient for plants.**
- **There are no disposal issues. It can be recovered and reused from the dyeing process.**
- **It is nonflammable and non-corrosive.**
- **It is non-toxic and low cost**

**Our goal is to be the most environmentally friendly textile company and deliver innovation by pioneering the latest technologies. We are a company focused on our employees and we are a learning organization that provides the basis for continuous quality improvement**



**Company Team Building**

We have quarterly team building exercises that involve the whole company. Our goal is to create an atmosphere of trust, fun, and a sense of real community. Everyone enjoys working together and as a team we make better product and new innovations



**Experts mentoring new Experts**

Our company hires experts from Thailand and from around the world to continue to make the highest quality products. As a learning organization, we strive to continuously train and educate our team to meet our customer's expectation.

**The most Innovative Equipment**

We pride ourselves in pioneering the worlds first machines throughout our offerings. We focus on sustainable practices that demand new equipment, fibers, and technologies to continuously become more eco efficient.



**Customer Service and Quality Review**

Everything we do centers on making our customers successful. We have ISO certified labs that are completely independent and cannot be influenced by management. Everything we do is predicted on enlightened hospitality.

