



Guiding Philosophy: Our Mission



To be the most reliable company in:

- 1. Customer service
- 2. Happy workforce
- 3. Innovative products & processes
- 4. Lead time excellence

- 5. Sustainability driven
- 6. Quality beyond expectation
- 7. Competitive price
- 8. Financial governance



Yeh Group Companies: Thailand - Samut Sakorn

184,000 m2 or 40 Acre

Tong Siang

Sportswear and active wear fabric supplier

- Penn Asia
 Elastic fabrics for lingerie and swim wear
- Digital Print Asia
 Ink jet printing
- Yeh Pattana TaYeh
 - Sports/active wear apparel production
- Yeh Parfun
 - Lingerie apparel production
- ESTO Asia
 - Laminated Fabrics





Yeh Group Companies: Global

Thailand - Samut Prakarn

- Stitch Count Zero
 Seam free ultrasonic welded apparel
- Harmony
 Membrane and TPU tapes

Vietnam

- Alliance One Apparel
 Apparel manufacturing- HCM
- FuHsun Tong Siang Alliance
 Fabrics production HCM

<u>Indonesia</u>

Alliance One Indonesia
 Apparel manufacturing – Semarang

Holland

• DyeCoo Textile Systems B.V CO₂ Dyeing Machine





Facts & Figures



| Established | 1988 |
|--------------|--------------------|
| Employees | 2200 |
| Group Sales | US\$150M / YR |
| Yards / Year | 90 Million / Yards |
| Gmts / Year | 2M / YR |
| Investment | US\$3-5M / YR |



Certification



Social

- Thai Labor Standard (TLS)
- OHSAS 18000:2007(Health & Safety) Stage 1

Environmental

- Global Recycled Standard (GRS)
- Oeko tex Standard 100
- ISO 50001:2011 (Energy Management System)
- ISO 14000:2004

Laboratory & Quality

- ISO/IEC 17025 Lab certified
- ISO 9001:2008



Innovation and R&D



"Innovation is our passion and sustainability is in our DNA."

David Yeh, Managing Director Tong Siang



Sustainability: Fabrics, Technologies & Processes





Water

- Drydye™Fabrics
- Dope dye
- Sublimation Print
- Polypropylene
- Process
 Innovation

- Energy
- Drydye™Fabrics
- Dope dye
- Sublimation Print
- Polypropylene
- Process
 Innovation
- Quality



- Recycled Polyester
- Renewable Resources
- Process Innovation
- Closed Loop



Sustainability



Technology: drydy

A revolutionary process and machine for water and chemical free dyeing.

- Zero Water Usage
- Zero Waste Water
- Zero Chemicals

Group

- Up to 75% less CO₂ emissions
- Technology supported by LCA data



Process: Resource Reductions

Asking 'why' of every process step in order to make process modifications that reduce resource consumption across the factory.

- Drydye™ Technology
- Implementation of solar energy
- Implementation of new invertors
- Water recycling

Supercritical CO₂ Dyeing Machine





Pioneering Supercritical Dyeing









ECOLOGICAL BENEFITS (compared to water dyeing)

No Water Usage 15.000 – 45.000 liter/batch vs. 0,00 No Waste Water 15.000 – 45.000 liter/batch vs. 0,00

Up to 50%-75% less CO2 emissions

137 kg vs.517 kg

No Chemicals

(pure) dyes, no surfactants etc.



* compared with traditional dyeing batch 300 kg

Performance: Drydye ® Product



Base

Best possible next to skin moisture management performance

- M2 Technology
- M3 Technology

Mid

Developing the business within 3 thermal levels for appropriate comfort & climate

- New structures
- New yarns

Shell

Working towards appropriate performance for varying activities with approved chemistry.

M5 Technology

Hybrid

Higher performance with less resource by combining traditional fabrics into one.

- YSO
- Hybrid knitting
- Santoni



Performance: Drydye ® Base

The best possible next to skin moisture management performance







Evaporative cooling (M2)

Ideal in warmer conditions when evaporative cooling can occur. Skin side dryness (M3)

Ideal in cooler conditions when skin side dryness is required to prevent chilling.

- Wicks moisture
- Dries quickly
- + Evaporative cooling
- Wicks moisture
- Dries quickly
- + Skin side dryness

Performance: Drydye ® Mid

3 thermal levels for appropriate comfort & climate



Ideal next to skin thermal High level of activity in cold conditions.

- Protect against the cold (0.025Rct) *
- Wicks moisture
- Dries quickly

Medium thermal value mid layer. Ideal for a cooler climate and high activity

 Protects against the cold (0.035Rct) ** *High thermal value mid layer. Ideal for cold climate and / or low activity*

 Protects against the cold (0.050Rct) ***



Key * Cold weather ** Colder weather *** Coldest weather

Performance: Drydye ® Shell

Working towards appropriate performance for varying activities with approved chemistry.





Everyday weather performance

Everyday needs for waterproof, breathability & wind protection.

Peak weather performance

Extremes needs for waterproof, breathability & wind protection.



Performance: Hybrid

Higher performance and aesthetics with less resource by combining traditional fabrics into one.



Hybrid Knitting

Body mapping performance through knitting constructions.

- Zonal knit structures
- Zonal fabric composition
- Zonal performance



Hybrid Aesthetic

Zonal aesthetics through computerized knitting constructions.

- Zonal colors
- Zonal structure



Hybrid Performance

Combining performance features into one fabric.

- MMT & DWR
- Thermal & DWR
- Windproof & Lightweight



Marketing Drydye ® Technology



Drydye on product logo



drydye

Saving Water with pure Performance

Drydye *Technology is a revolutionary waterless dyeing process which saves 25 liters of fresh water per tee shirt. This clean technology uses pure dyestuff and no chemical additives that dilute performance. Join us in pioneering the next generation of advanced fabrics that make a difference...

www.drydye.com

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Yeh

Drydye hangtag

Setting up a Vertical Operation

Offering customers a one stop shop solution from fabric to finished garments.





Future Innovation

"Innovation is a journey to garments directly extruded from polymers, cutting inefficiencies and exceeding performance expectations"



Drydye™ Technology



Collaborative Outreach



Vertical Outputs

Drydye[™] 2.0 colours fabrics as a standard, yet challenges the face of textile performance.

Cross industry collaborations enable technology and process innovation to supersede innovation expectations. The garment becomes the end product, enabling more complex solutions and a sustainable design approach.



Sophie Mather – Innovation Director, Tong Siang

Growing drydy

Aggressively grow waterless dyeing capacity (Million yards/ Year)

- $-2014 \rightarrow 6.0$ million yards
- $-2015 \rightarrow$ additional 3.0 million yards
- $-2016 \rightarrow$ additional 6.0 million yards

Our long term goal is to replace all conventional dying with CO2 dying. This is subject to the availability of additional machines





Thank You

Find us on:



http://www.youtube.com/user/Yehgroup