



Moisture Management Solutions

Beta Textiles Co., Limited
www.betatextiles.com

1. About this Product Release

This product release aims to providing a solution for global buyers, importers and traders who wish to either order moisture management fabrics or finished moisture management sportswear apparel from Beta Textiles Co., Limited, which is a group of companies that provides full package solutions for performance apparel with flatlock (ISO 607) or normal stitching.

2. Company Structure

Beta Textiles Co., Limited is a group that consists of:

- ◆ Beta Textiles Co., Limited – the parent company; and
- ◆ Novus Textiles Manufacturing Co., Limited, the knitted fabric manufacturer; and
- ◆ Zhangjiagang Beta Clothing Co., Limited, the sewing factory that operates with more than 25 Yamato flatlock (ISO 607) sewing machines.

In addition to production to production from its own sewing factory, the company also works with 5 other exclusive subcontractors to provide a production capacity of about 5 millions pcs per year.

The parent company is responsible for international sales of the whole group.

3. Contact Information

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4. Moisture Management Solutions

4.1 Moisture Management achieved by application of chemicals

Fabrics and garments with moisture management achieved by application of wicking agents are easy to produce and will cost less. Beta Textiles Co., Limited uses the following wicking chemical agents to achieve quick dry and moisture management effects:

a. Hydroperm DH, manufactured by Clariant

b. Ultraphil HSD, manufactured by Huntsman (BASF)

Such fabrics are apparels are not permanently wicking as moisture management is achieved by treatment with chemicals.

4.2 Moisture Management achieved by production of fabric with permanent specially engineered wicking and quick dry yarn.

4.2.1 Coolmax

This is a top moisture management product if the client can afford.

The following data are taken from Invista's website to avoid possible misrepresentation.

Why choose COOLMAX® fabric? For the simple reason of staying dry and comfortable when you start to perspire.

Sweating is one of the body's natural mechanisms to stay cool. Engineered with special technology to wick moisture and enhance drying, COOLMAX® fabric helps you stay dry and energized - exactly what you need to feel comfortable not only during the day, but also through your toughest workouts.

Since 1986, COOLMAX® fabric has been delivering benefits to help top athletes push harder and longer. Today, COOLMAX® fabric appeals to the fashion conscious who prefer a cool, soft and high performance fabric that fits every lifestyle. COOLMAX® fabric is the confident, sophisticated choice for active consumers.

How it works



- 1.COOLMAX® fabric pulls moisture away from your skin.
- 2.COOLMAX® fabric absorbs and spreads moisture out across fabric to enhance evaporative drying rate.
- 3.Air moves in to keep your body cool and dry.

Interesting facts

Moisture management + breathability = total comfort

Breathability - The performance of COOLMAX® fabric is inherent in the structure itself. The specially engineered fibers allow fabric designers to create high-performance fabrics that are soft, breathable, and moisture wicking.

Easy care - Garments made with COOLMAX® fabric are machine washable and dryable. However, fabric softener and chlorine bleach should not be used. Some garments

may require special care because of the style, not the fabric. It is best to read the care label inside the garment.

Energy saving - COOLMAX® fabric is so quick drying that you actually reduce dryer use! Just hang wet clothes and be amazed at how fast they dry. Great for traveling, too!

Year-round comfort - In cold weather, COOLMAX® fabric is a great first layer, especially during high aerobic activities. It keeps chill-inducing perspiration away from your skin and moves it to the outer layers for evaporation. You stay warm when your body is dry.

COOLMAX® is a trademark of INVISTA.

4.2.2 Coolplus and Topcool

Coolplus and Topcool are also wicking yarns from Taiwan. Beta Textiles Co., Limited will buy such yarn from Taiwan and produce fabrics and performance apparels in mainland China with such yarn.

For more information on Coolplus, please visit <http://www.topcool.com.tw>.

No technical information is available for Topcool. Topcool is the product of Taiwan Far Eastern Group.

Advantages of such yarn is low cost and good performance. As customs clearance and import duty are required, fabric and garment production in mainland China will be less prompt. However, the time to ship such yarn into mainland China is not so significant to cause delay for order production is purchase orders are well planed.

4.2.3 Coolpass

Coolpass is the most convenient yarn for Beta Textiles Co., Limited in production since the yarn manufacturer is only 1.5 hours away from Beta Textiles Co., Limited. Both Beta Textiles Co., Limited and the Coolpass manufacturer – Jiangsu Hengli Chemical Fiber Co., Limited are located in the same area of Suzhou, Jiangsu Province, China.

The following information is taken from the manufacturer's product manual:-

Coolpass:

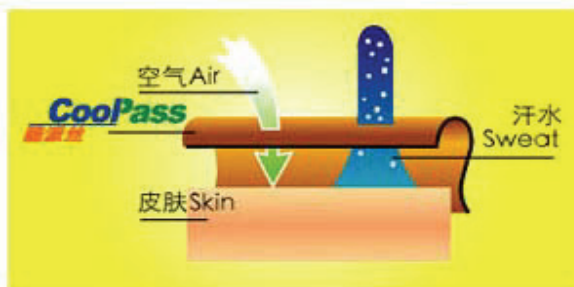
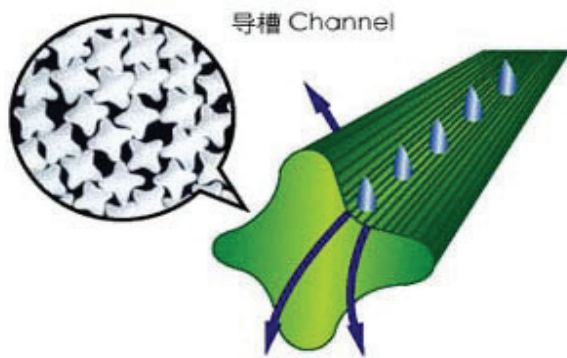
Cool & Dry-comfort for all day;

Well breathable fabric;

Excellent soft and smooth feeling.

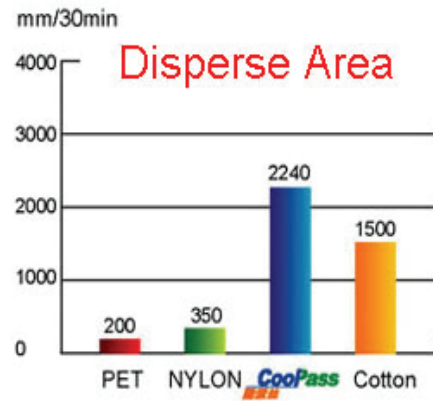
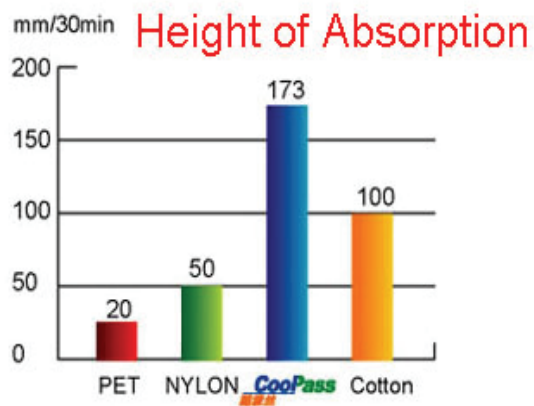


Coolpass is an eternal high-performance functional polyester fiber. The ditches informed by the specific “cross (+) section” speeds up the moisture absorption and diffusion. Fabrics made from CoolPass obtain excellent comfort in wear and dry, soft and breathable.



Test Standard

Refer to the international standard, surpass the national standard, and replace the overseas products.



Specifications:

DTY:

75D/96F/72F/48F

100D/144F/96F (S+Z), 100D/72F/48F

150D/144F/96F(S+Z)

FDY:

50D/36F, 75D/36F

Application

Sportswear/Casualwear/Underwear

4.2.4 Cooldry

Cooldry is another wick and moisture management yarn.

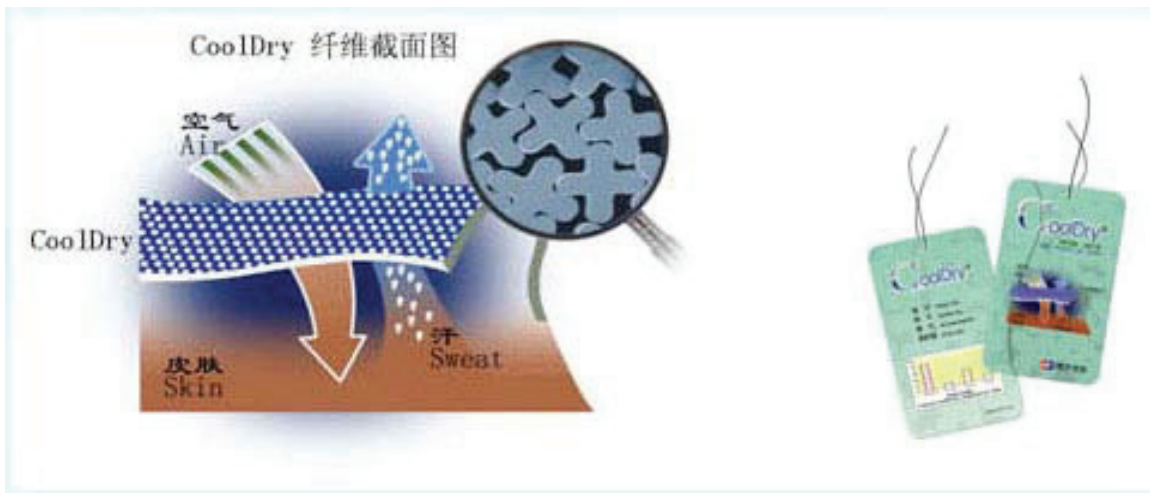
The following is an introduction to the product by the yarn manufacturer:-

Cooldry

Dry-comfortable and breathable

1).Introduction

Cooldry integrates the comfort and quick-dry performance of polyester. It maximizes the transmission of moisture from the skin to the outer surface of the fabric by combinations of special capability. Design in spinning the fabric, fabric design and unique finishing methods. At the same time the unique structure makes the fabric more breathable and soft, comfort, keeping the fabric and skin dry therefore giving the feeling of health and comfort.



2). Functions of products

Light and comfortable

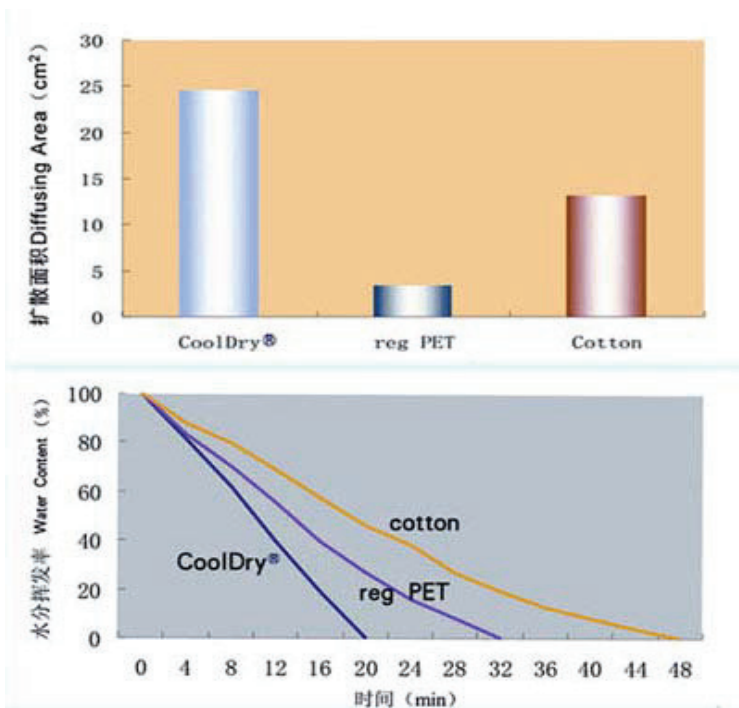
The tetra cross channel cross section of the fiber results in weight reduction of 25% versus regular polyester.

Dry-comfortable and breathable

The tetra channel structure of the fiber makes CoolDry more breathable, which repels the moisture more quickly and keep the body dry and comfortable.

Moisture absorbance and quick drying

CoolDry integrates the comfort of cotton and quick drying performance of polyester. It can absorb sweat from the skin and quickly transport it to the outer of textile to evaporate.



3).Available Yarn in CoolDry

Spun: 1.5DX3.8mm (fiber)

Filament yarn:

75D/36F, 75D/72F, 100D/48F, 150D/72F, 75D/48F (full dull), 75D/48F UV-Cut;

Spun yarn:

100% CoolDry: 16s – 40s

CoolDry/Cotton: 16s – 40s

Legal Statements:

Beta Textiles Co., Limited is not any way associated with manufacturers of Coolmax, CoolPlus, CoolDry and TopCool. Beta Textiles Co., Limited only from time to time, as needed for its production, uses above mentioned yarns to produce performance fabrics and/or apparels. The brands and trademarks as mentioned above are owned by their own owners respectively.