

SULCOOL®



SULCOOL®

Freshness In Fabric





Sulindafin's SULCOOL<sup>®</sup> yarn, with its excellent moisture absorbency and wicking capabilities, more than rises to the task of creating quality fabrics to suit today's active lifestyle. Through its proprietary tetra-channel capillary construction, SULCOOL<sup>®</sup> far surpasses conventional yarns in terms of moisture management.

## THE PRODUCT

SULCOOL<sup>®</sup> is available as Draw Textured Yarn in various deniers/filaments and luster such as semi dull, full dull or bright to suit your needs. The standard specifications in which SULCOOL<sup>®</sup> is available are DTY 75d/36f, 75d/48f, 75d/72f, 100d/72f, 100d/96f, 150d/72f, 150d/96f, 150d/144f and 200d/144f.

## FABRIC CHARACTERISTICS

Consumers who demand enhanced performance from their apparel for their active lifestyles will find that fabrics made with SULCOOL<sup>®</sup> keep them cooler than other fabrics. SULCOOL<sup>®</sup> effectively wicks perspiration away from the skin to the fabric's outer surface, speeding evaporation. This thermoregulatory effect helps consumers stay drier and more comfortable, eventually increasing their performance and endurance.

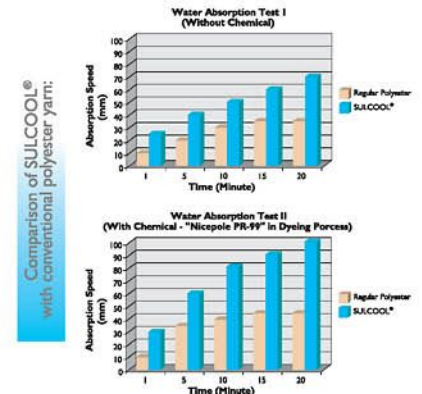
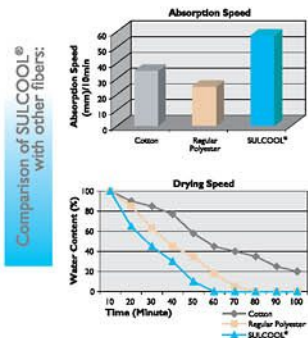
Fabrics made with SULCOOL<sup>®</sup> are also light-weight, durable and easy to care for. Possessing an excellent drape with a unique feel and softness, SULCOOL<sup>®</sup> is designed to add comfort to performance.

Given that the properties of SULCOOL<sup>®</sup> are inherent in the fiber structure itself, consistent quality is ensured wash after wash. Most garments made with SULCOOL<sup>®</sup> fabrics are machine washable and dryable; however, fabric softeners and chlorine bleach should not be used.



## FABRIC PROCESSING CONDITIONS

While processing conditions remain similar to that for conventional polyester yarn, the use of less than 2% of hydrophilic chemicals would help retain SULCOOL<sup>®</sup>'s effectiveness. The usage of silicon based finishing agents and other resin based auxiliary material in the processing of the fabric is not recommended.



Marketing Office

PT SULINDAFIN

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Freshness In Fabric

SULGUARD®

SULGUARD®

Carefree Cleanliness



Sulindafin's SULGUARD® nylon yarn offers a high level of protection from the different kinds of bacteria that we are continually exposed to in the course of our everyday lives.

## THE PRODUCT

The chief component of SULGUARD® is an environmentally-friendly, non-toxic inorganic additive made in Japan, that's safe and perfectly compatible with the human skin.

When the bacterium comes into contact with the silver ion particles present in the inorganic additive, a chemical reaction occurs. This chemical reaction acts to restrain all bacterial activity and inhibit bacterial growth thereby eliminating all forms of bacteria.

With the inorganic additive used in the extrusion and spinning process, the anti-bacterial effect in SULGUARD® is permanent and unaffected by washing or frequent use. This is unlike products that are given supplementary treatments or finished with migrating substances which can result in irritation to the skin. With SULGUARD®, you can be assured of total protection.

SULGUARD® is available in various deniers/filaments and luster to suit your every need.

## CERTIFICATIONS

Comprehensive series of tests carried out by Japan Association for the Function Evaluation of Textile as well as Japan Spinners Inspecting Foundation have proven the anti-bacterial effect of SULGUARD® and have confirmed the permanence of the anti-bacterial effect in both greige and finished fabrics.

The certificate standards achieved include the stringent JIS L1902 and AATCC 147.

## APPLICATIONS

SULGUARD®'s anti-bacterial properties make it ideal for use in fields which require a high degree of hygiene. This includes the likes of medical care providers - in the form of surgical gowns, wipes or other hospital textiles - as well as food and beverage related industries.

Consumers can also benefit from the total protection offered by SULGUARD® when it's used in undergarments, swimwear, hosiery and socks. You can also turn to SULGUARD® for effective odor-abatement in insoles or linings of shoes, boots and even helmets.

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Carefree Cleanliness

SULNATURAL®

SULNATURAL®

Natural Comfort



Sulindafin's SULNATURAL<sup>®</sup> yarn was specially developed to incorporate the natural feel of linen whilst still retaining the resilience and durability of synthetic yarns.

In order to attain the distinctive cool rough touch of linen in polyester, the polyester filaments are partially bonded through a special false-twisting technique. With the mastery of this technique, Sulindafin is proud to offer SULNATURAL<sup>®</sup> for that desired natural feel of linen.

## THE PRODUCT

SULNATURAL<sup>®</sup> is available in various deniers/filaments in semi dull luster but can also be made available in other luster such as bright or mixed with cationic to suit your needs. The standard specifications of SULNATURAL<sup>®</sup> yarn are semi dull 75d/36f, 100d/48f and 150d/96f but other denier/filament combinations in different luster can also be made available.

## FABRIC CHARACTERISTICS

Fabrics made with SULNATURAL<sup>®</sup> possess the distinctive, rustic appeal of linen while retaining the advantages of polyester - low shrinkage, good colorfastness, excellent drape, wrinkle-free and durable.

Lightweight and airy, linen has always been known for its timeless comfort and is a classic favorite among many. Possessing all such linen-like properties, SULNATURAL<sup>®</sup> fabrics have a variety of uses ranging from fashion apparels like suits and scarves to bedding and even table skirting.

## FABRIC PROCESSING CONDITIONS

SULNATURAL<sup>®</sup> yarn is suitable for both weaving and knitting. In order to optimize the weaving process, it is important to maintain uniform tension. Subjecting the fabric through relaxation process would enhance the natural effect and ensure better results. The natural hand feel of the fabric can also be enhanced by using weight reduction process.

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Natural Comfort

SULSHIELD®

SULSHIELD®

True Peace of Mind



Sulindafin's SULSHIELD® yarn with its excellent flame retardant capabilities offers an additional measure of safety for consumers.

## THE PRODUCT

SULSHIELD® is rendered permanently flame retardant through the modification of its polymer by adding a phosphorous-organic component during the polymerization process.

Ecologically-friendly in both the production and finishing process, SULSHIELD® only contains carbon, hydrogen, oxygen and a few phosphorus elements, making it safe and reliable. It also has a Limiting Oxygen Index (LOI) of greater than 32%.

SULSHIELD® is available as Draw Textured Yarn in various deniers/filaments and luster such as semi dull, full dull or bright to suit your needs. The standard specifications in which SULSHIELD® is available are DTY 75d/72f, 150d/48f, 150d/96f, 150d/144f, 300d/96f and 600D/192f.

## CERTIFICATIONS

Comprehensive series of tests have been conducted and all have proven the permanent flame retardant properties of SULSHIELD®.

The certificate standards achieved include Britain's stringent BS 5438, BS 5867, BS 5838 and BS 5852 as well as other international standards such as Japan's JIS L1901, ISO 6941 and CFR 1610.

## FABRIC CHARACTERISTICS

Fabrics made with SULSHIELD® melt quickly away from the flame. Ignition energy is absorbed as the polymer modification captures and neutralizes the radicals (highly charged elements) before they can propagate more flames.

## FABRIC PROCESSING CONDITIONS

SULSHIELD® yarn is suitable for both weaving and knitting. Having a lower temperature and reduction cleaning during the dyeing process would help ensure the effectiveness of SULSHIELD®. The use of silicon based finishing agents and high flammability dyestuff especially in the case of pigment printing is not recommended.

## APPLICATIONS

Fabrics made with SULSHIELD® are ideal for the Healthcare, Hospitality and Transportation industries, as well as for military and special purpose work uniforms. SULSHIELD® fabrics are also the perfect material of choice for carpets, curtains, furniture and wall coverings in both homes and offices.

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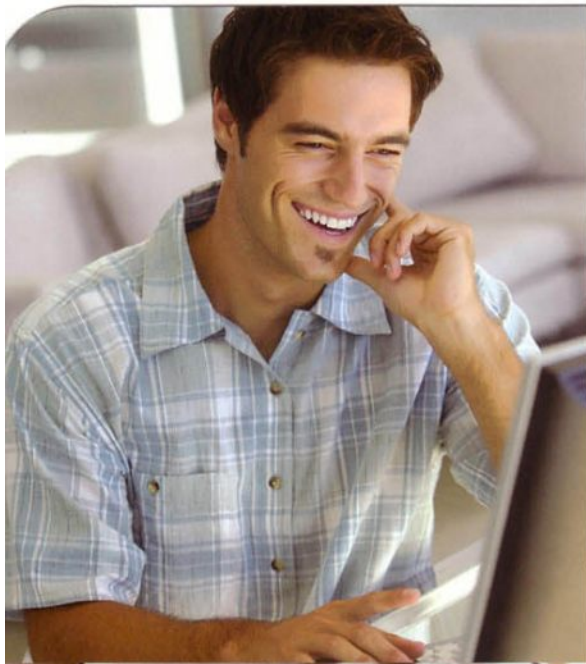
True Peace of Mind



SULWAVE®

SULWAVE®

Waves of Oceanic Charm



Sulindafin's SULWAVE® yarn was developed out of inspiration from the Japanese's invention of Shingosen, given the important development of polyesters in its usage in "aesthetic touch" fabrics.

SULWAVE® was specially created to produce an innovative visual effect of wave-like patterns, otherwise known as the onion-skin effect while incorporating a unique blend of the dry peach face and soft feather touch.

## THE PRODUCT

SULWAVE® is available as Polyester Filament Yarn in various deniers/ filaments in semi dull luster. The standard specification in which SULWAVE® is readily available is 100d/72f and 200d/288f.

## FABRIC CHARACTERISTICS

Fabrics made with SULWAVE® combines beauty with performance. While possessing a very special wave-like design, SULWAVE® fabrics retain all the desirable properties of polyester – lightweight, durable, crease-resistant, excellent texture, good handle, luxurious drape with the ability to retain original shape. The special production process also ensures that fabrics made with SULWAVE® are breathable for that added level of comfort.

A unique characteristic of SULWAVE® is that the fabric in basic greigh form may appear just like one made with regular polyester yarn but upon dyeing and finishing, a total transformation takes place giving rise to that unique visual effect.

Given this innovative wave-like visual impact created by SULWAVE®, the fabrics are best suited for fashion apparels like ladies' blouses, dresses or scarves. Lighter weight fabrics can even be used for modern fashion undergarments. Heavy weight SULWAVE® fabrics can be applied in home textiles like upholstery and curtains for that added subtle elegance.

SULWAVE® fabrics are generally easy to care for and can be machine washed and tumble dried.

## FABRIC PROCESSING CONDITIONS

SULWAVE® yarn gives an excellent effect in knitting but can also be used in weaving. It is important to maintain uniform tension in knitting as well as warping process to optimize the results. The scouring, dyeing and finishing can be carried out using any kind of auxiliary materials, same as with any regular polyester fabric. During processing a slow rate of heating, particularly between 40°C to 90°C ( $\leq 1.5^\circ\text{C}$  per minute) is recommended for better results.