

**Vardhman Textiles Limited**  
Central Marketing Office  
Sai Road, Baddi, Teh. Nalagarh  
Distt. Solan, Himachal Pradesh, Pin- 173205, India  
Tel : 0091/1795-392650-51-52, Fax: 0091-1795-392660  
Email : [fabrics@vardhman.com](mailto:fabrics@vardhman.com), Website: [www.vardhman.com](http://www.vardhman.com)

**F**ABRIC  
FINISHES



**Vardhmān**

Delivering Excellence. Since 1965.



## Anti-Pilling Finish

Cotton and other natural and man-made cellulosic fibers develop pills or protruding fibers during spinning, weaving and wet processing operations, due to abrasions. The appearance of the yarn or fabric becomes dull and hazy because of these pills.

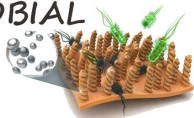
In order to improve the appearance, it is necessary to either remove the protruding fibers or to cement it to the surface properly by the application of some over coating.

Cotton and other natural and man-made cellulosic fibers can be improved by an enzymatic treatment called Bio-Polishing or Bio-finishing. The main advantage of Bio-Polishing is the prevention of pilling.



This finish enhances wearer comfort simply by minimizing friction between fabric & skin. It also enhances fabric resilience, durability & reduces blisters & reddening of the skin. Hangtags available as EVERGLIDE™

## ANTI-MICROBIAL FINISH



The inherent properties of the textile fibers provide room for the growth of micro organisms. We sweat during hot & humid weathers, during hard work or physical exercises.

Microbes like bacteria or fungus are developed in the shirt or the moist, warm and dark parts of body - Like armpits - Growth of microbes is the vital cause of body odor.

Anti - Microbial finish helps to prevent the body odor and is Durable up to multiple washes with 99% bacterial inhibition.



## Wrinkle free or Noniron

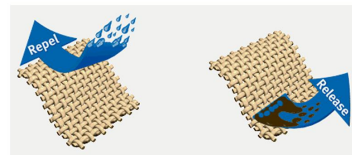
Non-iron means it stays wrinkle free, you don't have to iron it after washing & drying. No more unsightly creases during wear. A very soft & silky touch for enhanced comfort. This finish is achieved by Liquid ammonia treatment & cross-linking polymers.

## Easy to Iron

Easy to iron finish developed to ease of ironing. The dimensional stability of the garment is very good with smooth appearance during wear. This finish is achieved with crosslinking of polymers under ambient condition.

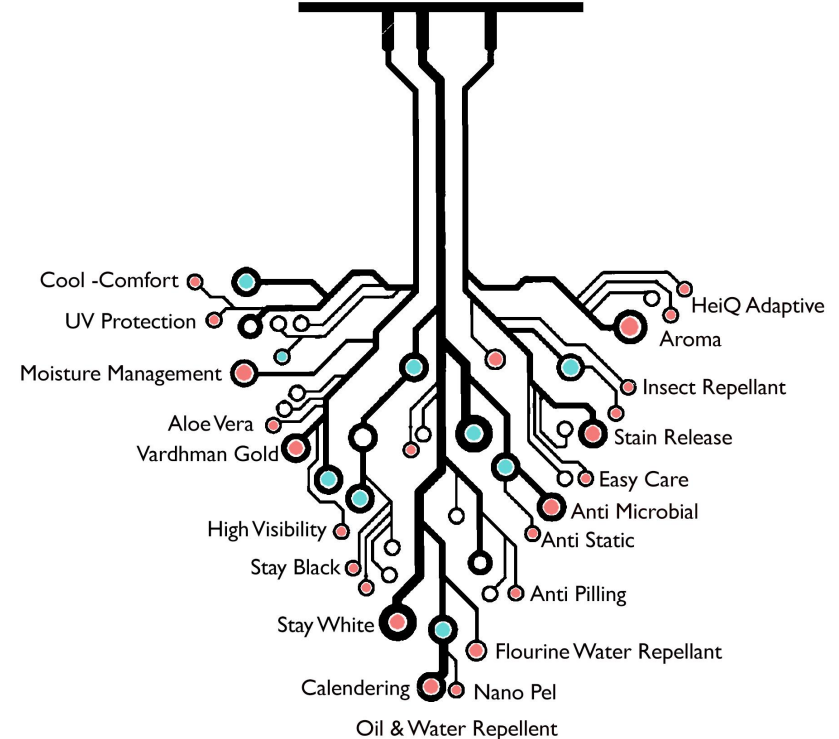


## STAIN RELEASE FINISHES



Stain release: Apparel fabrics are supposed to get dirty by oils or any other type of stains during regular use. To get rid of stain problems, we can go for stain release finish on the fabric. The finished fabric will be stained during uses but it will be washed off during home laundering. End use: Formal wear, casual wear & work wear. This finish is durable upto 20 washes.

## Finish Index



# VARDHMAN TEXTILES LIMITED

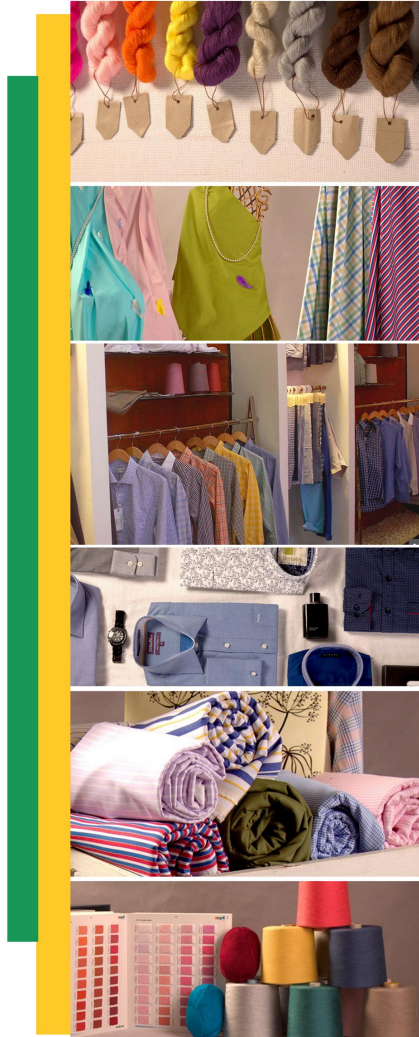


The 1.1 Billion Dollar Vardhman Group is one of the very few vertically integrated fabric suppliers in India. We are a leading producer of woven fabrics in the Asian subcontinent, producing fabrics for most of the large international retailers of the world for their varied fabric requirements.

Vardhman is the largest manufacturer and exporter of cotton yarn and cotton stretch yarn from India with the facility of 1.1 million spindles spread across 22 manufacturing units across 6 states.

Vardhman Fabric Team is innovative with development of new products aiming to fulfil the customers expectations, keeping in view the changing trends.

With the weaving capacity above 180 million metres per annum and processing capacity of over 114 million metres per annum across a wide speciality fabric range, the company is geared and ready to meet the high quality of fabrics produced worldwide. The range includes stretch and non-stretch, piece dyed and yarn dyed, top weight and bottom weight fabrics.



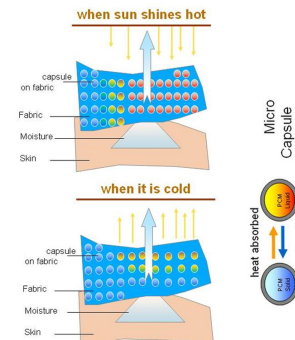
## INSECT REPELLANT

Mosquito repellent textiles is one of the revolutionary ways to advance the textile field by providing the much-needed features of driving away mosquitoes, especially in the tropical areas. It protects the human beings from the bite of mosquitoes and thereby promising safety from the mosquito-borne diseases, such as malaria, dengue fever (DF), Nile fever, dengue hemorrhagic fever (DHF), chicken gunia and filariasis, are serious public health problems in tropical regions, especially in Africa and Asia.



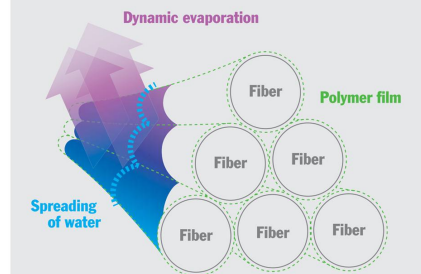
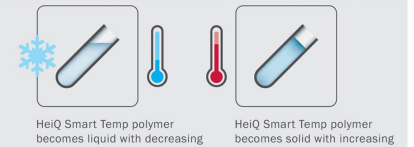
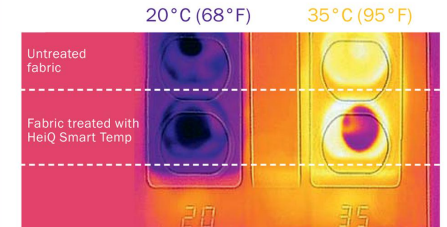
## AROMA FINISH

Aroma finish is done by application of encapsulated perfume. These encapsulated perfumes come in many flavors like strawberry, orange, icecool, jasmine etc. During physical work and body movement, these capsules break and release soothing scent which avoids body odor & keeps you confident.



## HEIQ SMART TEMP

HeiQ Smart Temp is a revolutionary textile technology providing garments with the ability to dynamically respond to temperature conditions and achieve optimal comfort and performance. When hot, it cools down the wearer by vapourising moisture and removing body heat. When chilly, this innovative technology helps to retain body heat on light fabrics. Specifically designed for next-to-skin textiles, HeiQ brings a new level of thermal comfort to sportswear and workwear. It acts like a second skin, enhancing the evaporative cooling mechanism. An innovative hydro-functional polymer dynamically changes its properties in response to temperature. Interacting with moisture to complement the skin's natural ability to sweat. During cool conditions the polymer has a high-affinity to moisture, and in warm conditions the affinity of the hydro-functional polymer to water is reduced as it solidifies. Compared to untreated fabric, the greater dynamic evaporation rate of fabrics treated with HeiQ Smart Temp provide outstanding thermal comfort for the wearer.



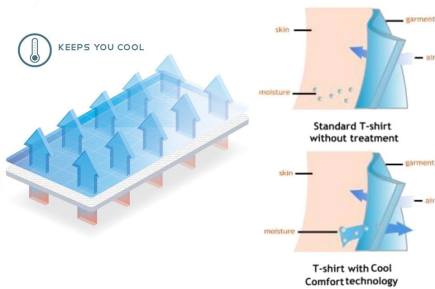
## COOL COMFORT



### No Sweat, Keep Cool!

Keep cool and dry finish allows the garment to breathe whilst at the same time transporting moisture away from the body leaving the wearer with a pleasant, cool and dry feeling. It gives a dry feel during wear, a greater comfort during vigorous activities.

Comfortable to wear, the static cling is reduced on synthetic fibers and is durable upto 30washes.

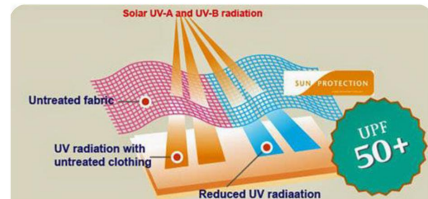


## Ultra Violet Protection Finish

Due to depletion of ozone layer of sky, our earth is exposed to UV radiation in sunlight. UV radiation causes skin diseases for skins where melanin content is low.

Cosmetic industry has developed sunscreen lotions/creams to minimize the UV radiation impact. In this direction, we had developed fabric with UPF 30+ & 50+ rating.

The performance of this finish also depend on color & density of the fabric. Hang tags available with this finish.



## Oil and Water Repellant

Lotus leaf effect can be visualized if we drop or spray water on it, all water will be drained without wetting the leaf. This finish repels everyday liquid like rain, mud, ketchup, juice, coffee, and wine. Garment stays cleaner for longer time. End use: School wear, Casual wear, Business wear. Different hangtags are available with this finish such as Teflon®, High IQ Repel, Nano Resist Spill®, Archroma Protection etc.

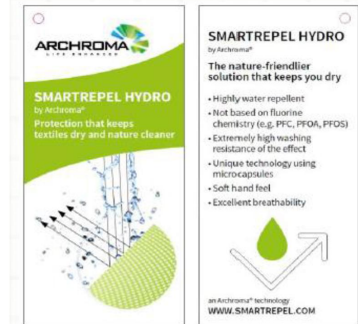


### Nano<sup>o</sup>pel

Nanotex Resists Spills or Nanopel provides a break-through spill resistance. Each fiber has been fundamentally transformed through nano-technology. As a result, the fabric repels liquids and becomes breathable. This finish repels everyday liquid like rain, mud, ketchup, etc. The treatment particles are around 1000 times smaller than a grain of sand. Resultantly, the garments remain cleaner for a longer time. The technology is durable upto multiple washes.



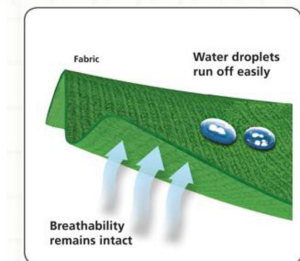
## Flourine Water Repellant



Long lasting water repellent effect is the key functionality for outdoor textiles. The fluorocarbon free water repellent finishes have the following advantages:

Being green, renewably sourced, more eco-friendly.

Non-Flourinated Repel water and common based liquids, delivers high performance upto multiple washes



## HIGH VISIBILITY FABRICS

High-visibility safety apparel (HVSA) is clothing (e.g., vests, bibs, or coveralls) that workers can wear to improve how well other people see their visibility. Most often, high-visibility clothing is worn to alert drivers and other vehicle operators of a worker's presence, especially in low light and dark conditions. High-visibility head wear can also be worn to increase the visibility of the wearer in situations where part or all of the wearer's body could be obscured (e.g., leaves/trees, traffic barriers, construction materials, etc.).

High-visibility safety apparel (HVSA) is needed if you work when there is low light and poor visibility, especially if you are working around moving vehicles (cars, trucks or other machinery traveling under their own power - e.g., forklifts, backhoes.)

EN ISO 20471 (replaces EN 471) and testing can be performed in full by BTTG™ Testing & Certification Ltd. The test requirements of this standard ensure that the colour is of adequate shade and depth by means of Chromaticity and Luminance tests (CIE 15, colorimetry), before and after Xenon exposure to ISO 105 B02 and after the maximum number of allowable laundry cycles (ISO 6330/ISO 15797 or ISO 3175). Products are also checked for colourfastness to ensure no leaching of the high-visibility dye stuffs are transferred to other items of clothing during their end use.



## STAY black

A dyeing technology that is a great way to keep preventing the fading black colour. It prevents the dye to bleed and the garment retains the original black colour upto 25 home laundries. Fabrics dyed in this way are great for your everyday wash clothing.

## STAY white

Clothes naturally begin to yellow over time. To make clothes appear whiter, the yellow tinge needs to be overcome. Laundry detergent manufacturers have tackled this problem by adding an additive to detergent which absorbs into the fabric and remains absorbed after the laundry is finished.

This additive is called an 'optical brightener' and is the magic behind how "whiter than white" works.



Calendaring, process of smoothing and compressing a material during production by passing a single continuous textile through a number of pairs of heated rolls.

The rolls in combination are called calendars. Calendar rolls are constructed of steel with a hardened surface, or steel covered with fiber to provide a smooth, glossy finish.

It upgrades the fabric handle and impart silky smooth touch to fabric. It is been achieved by application of stipulated heat & pressure. This finish is suitable for yarn dyed shirting fabric to improve its aesthetic value.



## MOISTURE Management

Moisture Management prevents perspiration from remaining next to the skin. In hot conditions, trapped moisture may heat up and lead to fatigue or diminished performance. In cold conditions, trapped moisture will drop in temperature and cause chilling and hypothermia. Excess moisture may also cause the garment to become heavy, as well as cause damage to the skin from chafing.

## Coolit

Stay cool, all day, everyday

COOLIT

- Keeps you cool
- Soft and comfortable
- Generates a cooling effect on contact with moisture/sweat

www.n9world.com

Icons: Cooling (snowflake), Up to 3°C cooler (thermometer), Sweat activated (water droplets).

A sustainable cooling technology that responds dynamically to body temperature and perspiration.

We treat the fabric with super critical fluid which changes the morphological structure of cotton fibre. Also this fabric has moisture management properties too. Cool it properties which makes fabric comfortable even under extreme hot condition. Hangtags are available with this finish



## aloe vera FINISH

The application in the fabric provides a moisturizing effect, skin regeneration and healing. Also it is being claimed by many researchers for its anti-ageing property. The fabric cools during the warm nights, and if you are cold on the contrary, it warms. It features excellent antibacterial and anti-allergic properties. Fabric is equipped with the final finish, which delivers exceptional fabric properties. The fabric contains a 3% extract of the medicinal Aloe Vera plant. The Aloe Vera extract, known for its curative properties, acts as a natural purifier, as an anesthetic. It has over 75 beneficial nutrients and 200 active components that are habitually used to cure burns and skin rejuvenators. Scientific studies have shown that the incorporation of Aloe Vera in fabrics has clear benefits of rest and well-being.



## VARDHMAN GOLD with argan oil

Argan oil is one of the most valued oils extracted from argan tree seeds, which the Moroccan Berber people called "the tree of life". Due to its large amounts of Vitamin D and fatty acids, mainly oleic acid and linoleic acid. It offers incredible skin protection effects and plays an important role in cellular renovation and regeneration. It also helps to reduce wrinkles, re-establishes their hydrophobic barrier and also has anti-inflammatory properties. It also has medicinal properties like blocking cholesterol absorption and stimulating circulation and strengthening the organisms natural immune system.