

ONCE IN USE IT IS TOO LATE FOR EXPERIMENTS



ONLY THE TOUGHEST MATERIALS PASS THE GORE TEST METHODS

WHY CHOOSE GORE WORKWEAR?



“OUR PRODUCTS WILL DO WHAT WE SAY THEY WILL DO” Bob Gore

GORE-TEX® and WINDSTOPPER® products have earned their excellent reputation by delivering their product promise. Gore has put in place an ingenious quality management system which stipulates continual checking of all features, from the manufacture of the laminate through to the tailoring of the clothing, both in the laboratory and in a practical environment. Before being approved for volume production, each prototype is tested. As a consequence the user can rely on his GORE-TEX® and WINDSTOPPER® product. High-performance Gore fabrics offer the wearer lasting, maximum functionality and absolute comfort and protection for the specific end use.



GORE RAIN TOWER TEST

Before any newly developed GORE-TEX® Technical Garment goes into production, it has to pass the Gore rain tower test. Using special nozzles, the garment’s waterproofness can be tested under different foul weather conditions.



GORE CLIMATE CHAMBER

In Gore’s climate chamber it is possible to simulate diverse climatic working conditions. Physiological tests featuring different garment systems are carried out and are scientifically evaluated. The test results provide valuable information for the selection of materials and final construction of the tested garments.

THE FIELD TEST

Before market launch, various field tests, made on workplace location, must prove the suitability of newly developed Gore products for daily use. Existing products are continually improved and further developed using the same procedure.

Source: Hohenstein



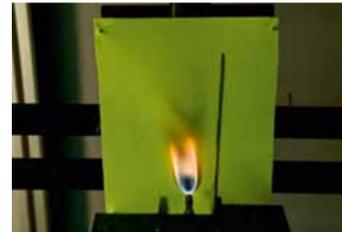
R_{et} INDICATES BREATHABILITY

The Ret test quantifies a fabric’s resistance to moisture vapour transfer: the ability to limit the passage of a water vapour molecule from an area of high moisture concentration to an area of low moisture concentration. The lower the resistance to moisture vapour transfer (the R_{et} value), the better the breathability.



MARTINDALE ABRASION TEST

The standard way to test a fabric’s resistance to abrasion is to use a specially designed machine, that rubs the test fabric with either wool or sandpaper, with considerable pressure. Depending on the fabric’s durability requirements, the vigorous rubbing can be adjusted to simulate real life situations.



LIMIT THE FLAME SPREAD

According to EN ISO 15025:2000, method A, a defined burner flame is applied for 10 seconds to the surface of a textile or laminate sample. The spread of the flame, after burning and subsequent after-glow time are recorded. Any after-flame or glow shall not exceed 2 seconds and no holes (acc. EN ISO 11612, Code A1) are permitted.



WATERPROOFNESS TEST (HYDROSTATIC HEAD TEST)

The test for waterproofness (Suter Test) establishes the resistance to water pressure of waterproof materials and seams. The water pressure is adjustable. Gore’s high standards require impermeability and liquid resistance under exceptional loads.



TENSILE STRENGTH TEST

This test simulates the stress and tension that is exerted on a textile or laminate during use. Since many textiles have differing directional properties, both transverse and longitudinal tensile strength are measured.



A DEMANDING REQUIREMENT AND WHAT IT MEANS

Work clothes must protect the wearer against the most varied weather conditions and assist the wearer’s performance. This is especially true for activities that take place completely or partly outdoors. In this case it is important to combine optimum protection against foul weather, with the wearing comfort needed for the work activity concerned. In addition to this, work clothes must be robust enough to adequately withstand stress in any given activity.

Protection goes beyond pure weatherproofness. Depending on the end use, outdoor protective clothing must also offer reliable protection from various hazards in the workplace such as:

- Contact with heat and flames
- hazard due to electrostatic charging
- risk due to thermal effects of an electric arc
- lack of visibility

FIT FOR USE – BASED ON EXPERIENCE FOR PRACTICAL USE

The high performance of Gore products results from the systematic application of our “fit for use” principle. This means that each time a product is developed we analyse the end product, its user and the user’s environment and the way in which each interacts with the other. Finally the product’s optimum performance profile is then defined for the application concerned.

BUILDING ON THE BEST

GORE-TEX® and WINDSTOPPER® products are developed and brought to market in cooperation with selected high-quality clothing manufacturers. Gore only grants licenses to certain manufacturers in order to ensure the continued performance of its garments. As a result, Gore isn’t able to accept full responsibility for the functioning of each and every item of GORE-TEX® and WINDSTOPPER® clothing.



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DURABLE, COMFORTABLE AND PROTECTIVE



MODULAR CONCEPTS



Modular clothing systems offer the best protection against the stress of heat and cold. The design of each part is determined by the specific risk and climate conditions of the workplace. Gore fabrics are exceptionally well suited to meet the requirements of comfort and protection.

GORE-TEX® TECHNICAL GARMENTS are durably waterproof, windproof and offer breathable comfort, to increase the wearer's efficiency. They provide spray protection against numerous industrial chemicals. All garments – from heavy utility protective garment to light postal everyday outdoor weather protection – meet or exceed existing standards. These abrasion and tear-resistant garments are still fully functional where other moisture barriers fail.

GORE ANTISATATIC TECHNOLOGY Daily work with petrochemicals, fuel distribution, or on airfields, goes along with the high risk of combustion or explosion due to electrical sparks from static

discharge. GORE-TEX® Technical Garments and WINDSTOPPER® clothing with Gore Antistatic Technology offer unique weather protection together with lasting full-surface antistatic protection.

GORE HiLite TECHNOLOGY While working in the dusk or dark, high-visibility clothing is a must. Serious grease and grime (common on railway lines, for instance) can impair visibility, putting workers at risk of serious accidents. Gore HiLite Technology keeps gear highly visible. Gore seals the fabric's yarns in an outer textile with a special polymer. The sealing process prevents dirt particles and water from becoming entangled with the fibres of the fabric, while still allowing the garment to breathe.

GORE® PYRAD™ FABRIC TECHNOLOGY provides heat, flame and durable weather protection in combination with excellent wearer comfort for outdoor workers in the oil and gas industry.

WINDSTOPPER® GARMENTS are suited for many end uses, in moderate and cooler conditions. WINDSTOPPER® products combine total windproofness with maximum breathability, in garments and accessories that keep the wearer warmer in windy conditions and comfortable with fewer layers and less bulk. They offer incredible comfort, maximum breathability and total windproofness, all in one durable garment. Worn next to the skin, they work as a single layer or as part of a garment system.

GORE-TEX® FOOTWEAR is engineered to keep feet dry and protect them by being durably waterproof, breathable and providing optimized climate comfort.

GORE-TEX® GLOVES Only dry gloves keep hands warm and tactile enough to perform work tasks in cold and / or wet conditions. GORE-TEX® Gloves are durably waterproof, windproof and breathable – even after the stresses of every day use. Hands stay warm and tactile when it's cold, and dry when perspiring.



LIQUID PROOF Liquids behave in different ways on fabrics. GORE-TEX® Garments do not only protect from heavy rain. The waterproof GORE-TEX® laminate resists many common chemicals and petroleum-based products, which is important in environments where exposure to liquid chemicals is a risk. Conventional barriers often break down and become porous.

WATERPROOF GORE-TEX® Garments are durably waterproof. Each pore of the GORE-TEX® membrane is 20,000 times smaller than the smallest water droplet, which is why water cannot penetrate through the pores. The use of GORE-SEAM® Tape also ensures that weak parts of the garment don't let water in.

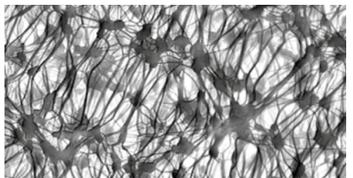
Being wet can be dangerous as it increases body chilling. Damp clothing only offers about a third of the thermal insulation of dry clothing, and when clothing is thoroughly wet this value can fall further.



BREATHABLE GORE-TEX® Technical Garments provide optimized breathability. Thanks to the fine pores in the GORE-TEX® membrane (each pore is 700 times bigger than a water vapour molecule) body moisture migrates easily from the skin surface to the outside. During heavy duty and demanding activities, moisture is wicked away from the body continuously. The wearer feels comfortable for longer and his work performance increases. Quick re-drying ability of GORE-TEX® Technical Garments is also essential. Especially in colder surroundings, where it prevents saturation of the insulation layer and the loss of thermal protection.



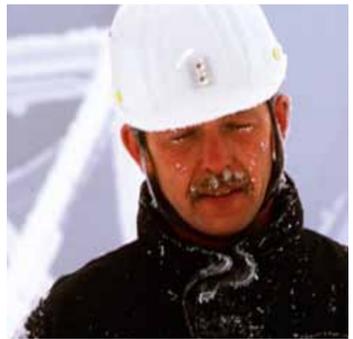
WINDPROOF **PLEASANTLY WARM EVEN IN WINDY CONDITIONS** Viewed under a microscope (see picture below), the GORE-TEX® membrane can be compared to a dense hedge. Wind does not penetrate, but is caught up in the three-dimensional structure. The wearer stays pleasantly warm in adverse, windy weather conditions over lengthy periods of use in the open.



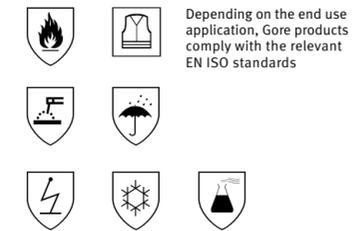
DURABLE **LONG LASTING QUALITY PAYS OFF** Durable protection and comfort – Gore's hard-wearing protective fabric garments offer a high degree of flexibility and durability. GORE-TEX® products retain their functionality even after numerous washes. Continuous quality assurance during production processes, regular quality audits, certification inspections at manufacturers, high-quality processing technology and the proper processing of raw materials ensure the enduring high quality of GORE-TEX® products.

R_{et} WILL INCREASE YOUR PERFORMANCE If perspiration is allowed to collect inside the clothing and stays on the skin, the wearer feels too cold or too hot, depending on the outside temperature. To maintain peak performance, clothing must "breathe", letting sweat escape. Very low R_{et} values can ensure this.

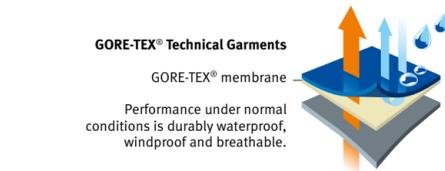
With less breathable clothing, work cycles get shorter and breaks longer and longer. There is a measurable reduction in productivity. Under heavy work loads, body temperature naturally rises, but with



GORE-TEX® Technical Garments, the clothing's superb breathability makes all the difference: and both overheating and chill out can be prevented.



THE CORE QUALITIES OF GORE FABRICS YOU CAN RELY ON



EXTRA FEATURES ENHANCE THE WEARER'S PROTECTION AND COMFORT

