

# Winter Weatherwear

## An **Expert Guide**

BaseLayer

Fleeces

Jackets

GORE-TEX®

Weatherwear Garments

Trousers

Head Protection

Hand Protection

GORE-TEX® Footwear



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www.arco.co.uk



Arco is the UK and Ireland’s leading supplier of personal protective equipment, workwear and workplace safety products offering a world-class range of over 170,000 products.

As Experts in Safety we are widely recognised as a provider of specialist advice through our branch network and this is further supported by our training and consultancy division. We reach our customers through an extensive product catalogue, interactive website, local Sales Offices and 41 strong Trade Counter network. We pride ourselves on providing customers with great availability, performance and price.

Founded in 1884 Arco has a heritage spanning four generations. With traditional family values at the heart of the business we pride ourselves on our core values; respect, hard work, enterprise and excellence in reputation. We fully subscribe to the ETI’s Nine Principles Base code and have fully incorporated the internationally recognised code of labour practice into our own ethical policy. In 2007 Arco was the first distributor in our industry to become a member of the Ethical Trading Initiative (ETI) and in 2010 we became a member of Sedex, the Supplier Ethical Data Exchange. We continually support local communities and charities donating in excess of 1% of pre tax profits annually.

As we are members of the BSIF Registered Safety Suppliers Scheme you can be confident that we will supply safety equipment which is genuine and compliant with the relevant standards and regulations. The BSIF monitor and regulate members of the scheme by conducting regular standards audits.



Stay warm and well this winter

As Experts in Safety we are committed to keeping you and your workforce safe and well this winter. In order to manage employees’ health and wellbeing it is important to take into consideration their thermal comfort.

Thermal comfort is defined in British Standard BS EN ISO 7730 as:

“That condition of mind which expresses satisfaction with the thermal environment.”

The term ‘thermal comfort’ describes a person’s psychological state of mind and is usually referred to in terms of whether someone is feeling too hot or too cold.

Why thermal comfort is important

People working in uncomfortably hot or cold environments are more likely to behave unsafely because their ability to make decisions and/or perform manual tasks deteriorates. For example;

- People may take short cuts to get out of cold environments, or
- The workers’ ability to concentrate on a given task may start to drop off and increases the risk of errors occurring

Employers need to be aware of these risks and make sure the underlying reasons for these behaviours are understood and taken into account. Addressing the underlying reasons for these behaviours is also likely to improve morale and productivity as well as improving health and safety.



It is the responsibility of management to ensure that a company adapts as necessary to reduce or eliminate the risk of thermal discomfort amongst the employees. If thermal discomfort is a risk, and your employees are complaining and/or reporting illnesses that may be caused by the thermal environment, then you are required to review the situation and if necessary implement appropriate controls to manage the risks.

We want to keep you and your employees warm and comfortable through winter to ensure they remain safe at work. This guide aims to help you select the most suitable products for your needs to ensure your employees stay warm, comfortable and safe.



# Layering

A Layering System is a method of wearing your clothing in the most effective way to ensure you get the best from the garments you are wearing.

**Why wearing layers is important**


Wearing multiple layers traps air near your skin which keeps heat close to you. Wearing multiple layers is more effective than one thick layer, as air is trapped between the layers and they retain more warmth. Layers must be selected based on the level of activity you will be doing.



# 3 layer system

A layering system is broken down into three key levels:

1



**The Base layer – The First Layer**

The base layer sits next to the skin, so if any perspiration occurs this is the layer that is needed to wick it away from the body. If perspiration is left on the skin this can lead to the garment clinging to the body and making the wearer feel cold.


The base layer is worn next to the skin for maximum wicking of sweat and to keep your body heat as regulated as possible.

Base layers can be worn alone indoors, because they will help mop up sweat, and transport moisture away from your body but a base layer alone is not enough to keep you warm outdoors. This is why layering is so important.

Your base layer wicks away any moisture from the skin, whilst your mid layer keeps you warm and your outer layer protects you against rain and wind.

See pages 5 & 6 for products

2



**The Insulating Layer – The Mid Layer**

Worn over your base layer, this traps the heat in and keeps you warm during your outdoor activity. This should be a synthetic, or a wool layer such as a fleece or similar garment.

This layer should be quite fitted allowing minimal air movement for maximum heat retention.

Synthetic fabrics such as a polyester fleece are ideal for the mid layer because they are great at resisting moisture and retaining heat.

See pages 7 & 8 for products

3



**The Waterproof/Weather Protection Layer – The Outer Layer**

The outer is your ‘shell’ shield against wind, rain and abrasion. It protects you from the elements, so it needs to be windproof and waterproof.

You need to look for a layer that’s waterproof, windproof and also breathable enough for your chosen activity so you don’t overheat.

See pages 11 – 19 for products

# 1. The Base Layer

The base layer sits next to the skin. Traditionally thermal underwear was worn to provide an additional layer and to keep the body warm in cold conditions. Newer styles of baselayers use innovative fabrics so that this layer will not only provide warmth but will also keep the body cool by wicking sweat away. This prevents the garment from clinging to the skin and making the wearer feel cold.

A base layer, also known as a 'foundation layer' lies against your skin. Its primary function is to regulate your body temperature. Modern base layers will keep you both warm and dry in cold conditions by providing insulation and most importantly by dealing with moisture removal. In warm weather the wicking process will move moisture to the surface of the base layer where it will be able to evaporate more quickly, leaving you dry and comfortable.

Your base layer should always be as closely fitted as possible; it needs to be touching your skin. Good quality base layers are made to stretch with the wearer to provide a skin tight fit.

**Trojan® BaseLayer**

This technical Base Layer is made from HydroBase® fabric which helps keeps you warm, dry and odour free. It is close fitting for optimal wicking performance and suitable for multi-season use.

- Hydrobase® Moisture Management performance wicking eyelet knit fabric 130gsm².
- Permanent odour resistance through the use of embedded silver ion technology will keep you smelling fresh all day.
- Fabric offers SPF50+ sun protection, great for when working outdoors.
- Lightweight and quick drying if you do perspire.
- Soft hand feel, providing maximum comfort.
- Anti-bacterial providing 99.9% protection against major health hazardous micro-organisms.
- Excellent colour retention and colourfast to saltwater, sun and chlorine, will retain colour wash after wash.
- Excellent dimensional stability so will not lose its shape after washing.

**Trojan® BaseLayer Long Sleeve T-Shirt**

Sizes: S – XXL  
Long Sleeve ref: 10TE400

**Trojan® BaseLayer Short Sleeve T-Shirt**

Sizes: S – XXL  
Short Sleeve ref: 10TE300

**Trojan® BaseLayer Pant**

Sizes: S – XXL  
Ref: 10TE500



**Xcelcius™ Men's Ultratherm**

Manufactured from Viloft® original fibres brushed inside to provide extra warmth. This range is suitable for those who work outside and is ideal for people who work in an environment that is constantly below -1°C down to -10°C.

- Made from 50% polyester/50% Viloft® which will keep the wearer comfortable.
- 220 g/m needle out interlock thread for a warm snug fit.

Sizes: S – XXL

Tops  
White Ref: 1052300

Pants  
White Ref: 1052400



**Arco Essentials Thermal Underwear**

The Arco Essentials range is affordable, ethically sourced and safety compliant. Basic weft knit construction with a soft touch feel for comfort and warmth.

- Made from 80% Polyester / 20% Viscose which will keep the wearer comfortable throughout their day.

Sizes: S – XL

Vests  
Navy Short Sleeved Vest Ref: 1053200  
Navy Long Sleeved Vest Ref: 1053300  
White Short Sleeved Vest Ref: 1051000  
White Long Sleeved Vest Ref: 1051200

Pants  
Navy Long Pant Ref: 1053400  
White Long Pant Ref: 1051400





# 2. The Mid Layer

## The Insulating Layer –

The purpose of your main insulating layer is to trap in heat and it should provide warmth even though it is relatively lightweight. The insulating layer should be made of synthetic or wool fibres and be quite tight fitting so that it allows minimal air movement to retain heat. Synthetic fibres such as a polyester fleece are ideal for the mid layer because they are great at resisting moisture and retaining heat.

### Trojan® Micro Fleece

A new addition to the Trojan® range, this lightweight interactive micro fleece offers high warmth to weight ratio. Its high quality micro fleece fabric is suitable for wearing as a stand alone fleece or zipped into the Trojan® interactive GORE-TEX® Jacket.

- Interactive full length YKK® front zip for extra durability.
- 200gsm² 100% polyester anti-pill micro fleece so will not bobble when washed.
- Two zipped hand warmer pockets featuring laser cut detail, keep your hands warm while you work.
- Stretch binding at cuffs for extra comfort while working.
- Elasticated hem drawcord for comfort and also can be made tighter to retain warmth.
- Interactive zip allows this to be linked in to Trojan® interactive GORE-TEX® Jacket 10TJ300, 10TJ200 and the Arco Hi-Vis Bomber Jacket 1874000.

Sizes: S – XXL Ref: 10TJ400



### Trojan® Tradesman Bonded Fleece

Heavyweight bonded Sherpa fleece jacket offering warmth, wind resistance and all-round comfort. Built for the working environment and designed for tough jobs in cold climates.

- Made from 100% polyester (540g/m²) Sherpa fleece fabric to retain warmth.
- Contrasting and re-enforcing elbow patches for a modern fashionable look.
- Two zipped hand-warmer pockets and zipped chest pocket, you can keep your hands warm in between jobs.
- Hook and loop cuff adjusters so you can make the cuffs tighter to retain even more heat.
- Elasticated adjustable hem cord, for a snug fit to retain as much heat as possible.

Sizes: S – XXXL Ref: 10TR100



### Trojan® Trail Soft-Shell Jacket

This Trojan® soft-shell jacket is both stylish and functional.

- Polyester/elastane laminated fleece to disperse water.
- Water-repellent and breathable, ideal for changeable weather conditions.
- Contrast sleeve panel with rubber cuff adjuster, allows the wearer to tighten the sleeves to retain warmth.
- Waterproof zip with internal storm flap to prevent water seeping through to the wearer.
- Chest, sleeve and hem pockets with waterproof zips, to reduce water ingress.

Sizes: S – XXXL Ref: 10T8600



### Trojan® Men's Glacier Fleece

This stylish fleece is really warm yet lightweight.

- Quick drying 380gsm² anti-pill polyester fleece offering optimum warmth for the wearer.
- Two zipped hand warmer pockets for storing your essentials.
- Draught beating fleece collar to keep your neck warm and reduce draughts.
- Adjustable shockcord hem to ensure a tighter fit to retain maximum warmth.
- Interactive YKK® zipper, stung durable zippers built to last.
- Can be zipped into Arco Hi-Vis GORE-TEX® coat 18G2100 and Arco GO/RT Hi-Vis GORE-TEX® coat 18G2000.

Sizes: S – XXXL Ref: 10TG400



### Arco Essentials Boston Lined Fleece

We've quilt-lined this fleece to keep you extra warm this winter.

- Made from 300g/m 100% polyester fleece with 4oz quilt lining for when it's really cold outside.
- Two lower zip pockets, to keep hands warm in between jobs.
- Drawcord hem to tighten the waistband which results in a tighter fit to keep in more body heat.

Sizes: S – XXXL Ref: 1043600



### Arco Essentials Fleece

The Arco Essentials range is affordable, ethically sourced and safety compliant.

- Substantial 300g/m² anti-pill fleece fabric will not bobble after washing.
- Two zipped pockets, with fleece lining for keeping hands warm between jobs.
- Drawcord in hem to provide a snug fit which helps to keep the wearer warm.

Sizes: XS – XXXL Ref: 1042200



# 3. The Outer Layer

## The Waterproof/Weather Protection Layer

The outer layer is your shield against wind, rain and abrasion; it protects you from the elements, so it needs to be windproof and waterproof. The wearer should look for a layer that's waterproof, windproof and also breathable enough for your chosen activity so you don't overheat. This is a crucial layer as you can wear a breathable base layer and mid layer, but if you don't wear a breathable outer layer then you will still overheat.

This layer should be selected based on the level of activity the wearer will be undertaking and the environment in which they will be working.

Arco offer a full range of weatherwear to keep the wearer warm, dry and comfortable while they work. Our range includes clothing to protect against whatever weather conditions you may encounter including rain and snow. The following pages include jacket options and trousers so that you can select the ones most suitable for your workplace.

### GORE-TEX® Fabric Technology

GORE-TEX® Products allow wearers to work in ultimate comfort and give durable protection by providing best-in-class material, construction and technologies. The secret of GORE-TEX® Fabric lies within its revolutionary bi-component membrane.

The GORE-TEX® Membrane is the core of all GORE-TEX® products. It is durably waterproof, windproof and breathable, and is permeable for water vapour. The result: water from the outside will never penetrate, cold winds cannot pass through, and perspiration can escape easily. This is why the body always stays dry and comfortable with GORE-TEX® Products.

#### What is the GORE-TEX® Membrane?

The GORE-TEX® Membrane contains over 1.4 billion microscopic pores per square cm (9 billion per inch). These pores are 20,000 times smaller than a water droplet, but 700 times larger than a water vapour molecule, which makes the GORE-TEX® Membrane waterproof from the outside, while allowing perspiration to escape from the inside.

Integrated into the membrane structure is an oleophobic or oil hating substance that allows moisture vapour to pass through, but creates a physical barrier to contaminating substances. In order to meet specific needs of each use, Gore has developed different GORE-TEX® Membranes and applies them as appropriate.



# Gore products do what we say they will do



Gore has established a comprehensive set of tools across the entire supply chain to ensure that GORE-TEX® products measure up to their promise. This is unique in the textiles and clothing industry.

- GORE-TEX® products are only manufactured in certified factories. Gore certifies every manufacturer and ensures that they adhere to strict Gore Performance Standards (GPS).
- No other performance workwear, hazardwear and footwear is tested more relentlessly inside and out than GORE-TEX® Products. Every new GORE-TEX® Product prototype is challenged by a series of laboratory tests and then real life tests out in the field.
- Gore not only tests the fabric but the entire system. Outer material, insulation, membrane and lining all have to prove their excellence under the toughest conditions. Only when the product fulfils the high construction standards of GORE-TEX® Products, is it cleared for production.
- Gore's development work concentrates on building up a comprehensive knowledge base about the best materials, designs and technologies as well as analysis of the end product (clothing and footwear).

- Gore is the only laminate manufacturer that supplies seam tape technology to ensure the seams of the garment remain waterproof, even after numerous washes.

To see the full Gore testing regime visit [www.arco.co.uk/goretex](http://www.arco.co.uk/goretex)



WATERPROOF, WINDPROOF, BREATHABLE



# The Outer Layer

**GORE-TEX® Weatherwear  
Trojan® Interactive GORE-TEX® Jacket**

Unisex two-layer GORE-TEX® jacket, offering fully waterproof, windproof and breathable protection for maximum performance and comfort. Certified to EN 343 Protection against Rain – Resistance to water penetration (3/3) and Water vapour resistance – Breathing properties (3/3) and EN 14360 GORE-TEX® raintower test.

- Certified to EN 343 3,3 and EN 14360 GORE-TEX® Raintower test.

**Sizes:** S – XXL  
**Navy Ref:** 10TJ300  
**Black Ref:** 10TJ200



**Berghaus GORE-TEX® Cornice Jacket**

This classic walking jacket has a fresh and contemporary look and maintains all the key features you need thanks to the two layer GORE-TEX® Performance shell fabric.

- Has a full length interactive zip to allow a fleece to be zipped in which provides extreme weather protection.
- Double storm flap to keep out cold winds.
- Breathability, durability and waterproofness come as standard with the high-performance GORE-TEX® Fabric.
- Never take your eye off your route – with a zipped internal map pocket you need never lose your way.
- Protect against the elements with the roll-away hood, warm-lined collar and zipped hand-warmer pockets.

**Sizes:** S – XXL  
**Ref:** Black – 10BD700  
**Ref:** Eclipse – 10BD800



**Sprayway GORE-TEX® Compact Jacket**

A lightweight GORE-TEX® Jacket ideal for all outdoor activities can be zipped together with an internal fleece to provide extra warmth.

- Two-layer GORE-TEX® Saturn polyester fabric – two layers of fabric to lock in extra warmth.
- Two zipped hand warmer pockets – additional protection for your hands on cold days.
- Part-elasticated cuff with Velcro – provide adjustable sleeves so when it's really cold you can tighten them to retain warmth.
- Press stud fastening with double storm guard – provides a wind proof seal.
- Hood rolls away into fleece-lined collar – always have your hood to hand if you get caught in a downpour.
- Internal stash pockets – can be used to keep your wallet and phone safe.

**Sizes:** S – XXL  
**Ref:** 10SD400

**For Sprayway GORE-TEX® Mountain Rainpant please see page 20**



Weatherwear 3-in-1 Jackets

Trojan® 3-in-1 Jacket

Unisex, high performance, waterproof and breathable 3-in-1 jacket with reflective detail for safety. 100% Polyester Ripstop outer fabric with a warm removable inner fleece jacket. This jacket is a perfect all-rounder offering a flexible and functional weather-beating combination.

Outer Jacket

- Waterproof and breathable Polyester ripstop fabric will keep you warm on the coldest of days.
- Three outer pockets with waterproof zippers, plenty of space for your bits and pieces.
- Underarm ventilation zippers for breathability so you won't overheat.
- Reflective detail for added safety.
- Pack-away hood with stiffened peak so your hood will stay on even when it's windy.
- Functional internal multimedia pocket.
- Can be worn as stand alone jacket.

Inner Jacket

- 260gsm<sup>2</sup> anti-pill fleece.
- Two hand warmer hip pockets with reversed zippers.
- Draught beating fleece collar.
- Can be worn as stand alone jacket.

Sizes: XS – XXXL      Ref: 10TR700  
(unisex sizing)



Trojan® 3-in-1 Multi Jacket

Lightweight, waterproof and breathable, a 3-in-1 jacket with the advantage of a removable quilted inner jacket which can be worn as a stand alone garment or as part of the multi-jacket.

Outer Jacket:

- Waterproof and breathable.
- Fleece-lined collar.
- Two zipped hand-warmer pockets, zipped chest pocket, small inner pocket.
- Internal mobile phone pocket with multi-media earphone cord loop.
- Hook and loop adjustable cuffs and elasticated hem cord.
- Roll-away hood with wired visor and volume adjuster.

Inner Jacket:

- Water-repellent quilt-lined jacket.
- Two hand warmer pockets with storm flap.
- Fleece-lined collar.

Sizes: S – XXL      Ref: 10TR000



Berghaus RG Alpha 3 in 1 Jacket

The RG Alpha 3-in-1 combines a lightweight, waterproof and breathable shell jacket with the advantage of a removable 100 weight inner fleece offering warmth and comfort. Subtle colour details and a considered finish make this a must have all year round jacket.

Outer

- Roll away hood with drawcord adjustment.
- Two zipped hand warmer pockets.
- Storm flap covered centre front zip.
- Hook and loop cuff tab adjustment.
- Drawcord hem adjustment.

Inner

- Interactive full length front zip.
- Two hand warmer pockets.
- Stretch binding at collar.

Sizes: S – XXL

Ref: Black – 10BG700  
Eclipse – 10BG800



Berghaus Women's Calisto Alpha 3 in 1 Jacket

The ladies' Calisto Alpha 3-in-1 combines a lightweight, waterproof and breathable shell jacket with the advantage of a removable 100 weight inner fleece offering warmth and comfort. Subtle colour details and a considered finish makes this a must have all year round jacket.

Outer

- Roll away hood with drawcord adjustment.
- Two zipped hand warmer pockets.
- Storm flap covered centre front zip.
- Hook and loop cuff tab adjustment.
- Drawcord hem adjustment.

Inner

- Interactive full length front zip.
- Two hand warmer pockets.
- Stretch binding at collar.

Sizes: 10 – 18

Ref: Black – 10BD610





Jackets

Trojan® Navigator Jacket

It's tough out there but you can trust Trojan® to perform day in, day out and still look the business. Trojan® workwear combines comfort and performance with innovative features designed around your workwear needs. A waterproof, breathable, fleece-lined jacket.

- Ripstop nylon outer with polyester fleece lining, will keep you warm on cold days.
- Elasticated drawcord waistband can be adjusted to retain warmth.
- Chest, sleeve and hand-warmer pockets with waterproof zips in case you get caught in the rain.
- Velcro-fastening storm flap and adjustable cuffs for wearer comfort.
- Adjustable roll-away hood, for times when you get caught in the rain.

Sizes: S – XXXL  
Ref: 10T8800



Arco Essentials Brooklyn Jacket

Superb bomber jacket in waterproof PVC coated polyester fabric.

- Fully taped seams.
- The body of the jacket is lined with anti-pill fleece for extra warmth.
- Semi-elasticated cuffs.
- Full zip-front with press-stud closure storm flap.
- Semi-elasticated waistband.
- Pack-away hood in fleece-lined collar.

Sizes: S – XXL  
Ref: 1030200



Arco Essentials Phoenix Jacket

A lightweight, yet durable jacket in a waterproof taslan fabric, suitable for all seasons.

- Nylon taslan fabric with fully taped seams.
- Mesh-lined body.
- Mobile phone pocket concealed behind single storm flap.
- Two front zipped pockets.
- Zip access for embroidery.

Sizes: S – XXXL  
Ref: 10A0200



Berghaus RG Alpha Jacket

The RG Alpha is a lightweight waterproof jacket suitable for multi-purpose use. Subtle colour details and a considered finish make this a must have shell jacket.

- Roll away hood with drawcord adjustment.
- Two zipped hand warmer pockets, with coloured pullers.
- Storm flap covered centre front zip.
- Hook and loop cuff tab adjustment.
- Drawcord hem adjustment.

Sizes: S – XXL  
Ref: Black – 10BG500  
Eclipse – 10BG600



Padded Jackets and Gilets

Trojan® Padded Jacket

The perfect garment for those cold damp days, a warm but lightweight jacket made from a waterproof and breathable outer shell fabric giving warmth without weight.

- Poly-Peach-Pearl Ripstop fabric offering water resistance and breathability.
- High performance, hand filled, lightweight, polyester, micro filling.
- Draught beating fleece collar.
- Mobile phone pocket with additional security pocket to inner.
- Warm lined hand warmer pockets.
- Velcro adjustable cuffs so you can tighten the cuffs to retain more warmth.
- Chin guard for added comfort.

Sizes: S – XXL

Ref: 10TR400



Trojan® Padded Gilet

When warmth and flexible performance is required this garment makes for the perfect partner. Used alone, or as part of a layering system, it offers high warmth without bulk making it an ideal all-season performer.

- Poly-Peach-Pearl Ripstop fabric offering water resistance.
- High performance, hand filled, lightweight, polyester, micro filling.
- Draught beating fleece collar.
- Warm lined hand warmer pockets.
- Chin guard for added comfort.

Sizes: S – XXL

Ref: 10TR300



Berghaus Popena Hooded Down Jacket

This hooded down jacket features 600 fill duck down, has a longer length cut and fixed hood delivering style and warmth from the elements in the colder months.

- 600 fill duck down.
- PERTEX® Microlight® 100% Nylon ripstop, highly wind-resistant with a durable water-repellent finish.
- Fixed, adjustable peaked hood.
- Two zipped hand warmer pockets and internal zip pocket.
- Exposed two-way centre-front zip.
- Sleeve articulation for ease of movement.
- Hook and loop cuff tab adjustment.
- Drawcord hem adjustment.

Sizes: S – XXL

Ref: Black – 10BG200

Eclipse – 10BG300



Berghaus Popena Down Vest

This versatile vest is fully featured with 600 fill duck down insulation providing excellent warmth and protection from the elements in the colder months.

- 600 fill duck down.
- PERTEX® Microlight® 100% Nylon ripstop, highly wind-resistant with a durable water-repellent finish.
- Two zipped hand warmer pockets.
- One internal zipped pocket.
- Exposed centre-front zip.
- Stretch bound sleeve opening.
- Drawcord hem adjustment.

Sizes: S – XXL

Ref: Black – 10BG400





Weatherwear – Trousers



Trojan® Rainpant

A lightweight, waterproof and breathable overtrouser made from 100% nylon ripstop, ideal for everyday use.

- Elasticated waistband, with adjustable draw cord so the wearer can achieve a tight fit to retain heat.
- ¾ length side leg zips with external storm guard for ease of donning over boots.
- Mesh and taffeta combined lining, for extra comfort also aids breathability during periods of hard work.

Sizes: M – XXL  
Ref: 10T9800



Trojan® Lined Action Trouser

Lined for extra warmth on winter days, versatile multi-pocket trouser, with eight pockets (six zip fastening) for extra security.

- 65% Polyester, 35% cotton lightweight, 170g/m².
- Warm 100% Polyester Tricot lining.
- Durable polyester/cotton fabric with added water-repellent finish, ideal for when working outdoors.
- Part-elasticated waist for extra comfort.
- Knee patches, adds extra durability to stress areas.
- Belt loops, can be worn with a belt if needed.
- Double stitched in stress areas to aid longevity.

Waist sizes:  
Regular (31" leg): 30" – 44"  
Tall (33" leg): 30" – 42"  
Ref: 2639630



Arco Essentials Shetland Trousers

The Arco Essentials range is affordable, ethically sourced and safety compliant. A practical overtrouser to complement the jacket on those stormy days.

- Waterproof PVC-coated polyester fabric.
- Fully taped seams to ensure no water ingress.
- Side access to undergarments for ease when wearing.

Sizes: S – XXL  
Ref: 1029900

Trousers

Advance Overtrouser Navy

A fully specified overtrouser in Isotex waterproof, breathable fabric.

- Isotex taslan waterproof and breathable fabric.
- Fully taped seams to ensure no water ingress.
- Side access to undergarments for ease when wearing
- Full polyamide lining for added comfort.

Sizes: S – XXL  
Ref: 10E1800



Sprayway GORE-TEX® Mountain Rainpant

The Sprayway Mountain Rainpants are classic waterproofs that can be enjoyed all day long, whatever the conditions.

- Effective and durable GORE-TEX® Fabric – provides unbeatable protection from the elements.
- Drawcord waist – for an adjustable fit to keep warmth in.
- Half-length leg zips – to allow easy removal when wearing boots.
- Internal storm guard and rain gutter – guarantees complete water protection.
- Velcro and tab ankle adjustment – allows ankle to be tightened for a more secure fit.
- Reflective hem detail – Hi-Vis element for increased safety.

Sizes: S – XXL  
Ref: 10SC000





# Head Protection

It has long been recognised that the majority of heat loss in the body is through the head so this is a key area to protect when working in a cold environment. By wearing a hat or helmet liner, it allows the body to retain heat and keep warm.

When working in temperatures below 0°C the body starts to try and keep organs warm by reducing blood flow to areas furthest from the heart including, ears, fingers and toes. Ears are a key area at risk from frostbite because they do not have any muscles to produce heat and keep them warm.

Wearing a suitable helmet liner can also help bodies to stay warm in cold environments by reducing draughts to the head and neck area by forming a seal with your jacket collar allowing you to retain heat. For working in very cold environments helmet liners with face warmers are also available.



**Trojan® Hat, Scarf and Glove Set**

High performing micro fleece hat, scarf and glove set, offering full protection for those cold winter months.

- Double faced scarf and hat for extra warmth.
- 250gsm<sup>2</sup> 100% polyester anti pill fleece fabric will not bobble when washed.
- Contrast binding edge detail, looks stylish when worn with other Trojan® products.
- Clip fasten gloves preventing loss of one glove.

**Size:** One size  
**Ref:** 10TJ100



**Trapper Fleece-Lined Hat**

Nylon Oxford weave outer fabric with Thinsulate™ insulation and fleece lining.

- Fold down ear panel for extra warmth.

**Size:** One size  
**Ref:** 1041200



**Regatta Thinsulate™ Knit Hat**

Knitted acrylic hat with additional 3M Thinsulate™ insulation for extra warmth.

- Knitted acrylic outer.
- 3M Thinsulate™ lining to provide extra warmth.
- Available in black and navy.

**Size:** One size  
**Ref:** 26R1000

# Hand Protection

Don't be tempted to sacrifice safety for comfort and warmth during the winter months. This selection of gloves has been selected because they provide the necessary protection for your hands while insulating properties will ensure that they stay warm, even in the coldest conditions.

**Arco Lined Driver's Glove**

Premium quality leather driver's glove.

- Soft and comfortable, yet tough and durable.
- Keystone thumb for enhanced comfort and dexterity.
- Joss stick elasticated back for a safe secure fit.
- Full cotton fleece lining for warmth and comfort.
- Supple leather reduces hand and finger fatigue.
- Cat II Intermediate Design.

**Approved to:** BS EN 388:1994-3.1.2.2

**Sizes:** 9. 10. 11  
**Ref:** 1255600



**Arco Lined Black Driver's Glove**

Premium quality leather driver's glove.

- Soft and comfortable, yet tough and durable.
- Keystone thumb for enhanced comfort and dexterity.
- Joss stick elasticated back for a safe secure fit.
- Full cotton fleece lining for warmth and comfort.
- Supple leather reduces hand and finger fatigue.
- Cat II Intermediate Design.

**Approved to:** BS EN 388:1994-3.1.2.2

**Sizes:** 9. 10. 11  
**Ref:** 1255900



**Arco Hide Insulated Rigger Glove**

Rigger style coldstore/chillroom glove.

- Thinsulate™ insulation for enhanced warmth.
- Rubberised cuff for enhanced wrist protection.
- Vein patch for additional wearer safety.
- Elastic tensioner for secure fit.

**Approved to:** Cat II Intermediate Design BS EN 388:1994

**Size:** 11  
**Ref:** 1221000





Arco Essentials Hi-Vis Orange Latex Coated Glove

The Arco Essentials range is affordable, ethically sourced and safety compliant. Extremely comfortable and dextrous glove.

- Latex crinkle coating ensures good grip in wet and dry conditions.
- Hi-Vis liner for superb visibility.
- Seamless liner for comfort.

Approved to: BS EN 388:2003-1.2.2.1, Cat II Intermediate Design.

Sizes: 7. 8. 9. 10  
Ref: 1235400



Arco Fleece Lined Thinsulate Chill Glove

The perfect thermal glove for freezer and chill room applications.

- Thinsulate™ lining for extra warmth around the fingers.
- Fleece lining for overall hand warmth.
- Elasticated wrist for secure fit and comfort.
- Cat I Simple Design.

Sizes: One size  
Ref: 12T5400



Arco Knitted PVC Dotted Chill Glove

Red dotted chill gloves.

- Thermal acrylic/wool for warmth.
- PVC dots for good grip.
- Elasticated wrist for secure fit.
- Cat I Simple Design.

Size: One size  
Ref: 12T5300



Marigold Insulator™ KT2 Thermal Glove

Ideal warm liner glove for cold area product handling.

- One piece knitted Thermolite™ fibre glove.
- Advansa Thermolite™ fibre is machine washable, soft and non-chafing.
- Ideal as a liner under foodgrade latex/nitrile gloves.
- Ambidextrous.
- Universal sizing.
- Food contact approved.

Approved to: BS EN 388:2003-3.1.3.x

Size: One size  
Ref: 1447200



Arco Thermo Gripz Latex Knitwrist Glove

Excellent value thermal glove. Secure grip in cold and dry conditions.

- Crinkle latex coating for great grip.
- Fleeeced seamless knitted liner for warmth and comfort.
- Knitted wrist ensures close fit.
- Supplied in packs of 12 pairs.
- Cat II Intermediate Risk.

Approved to: BS EN 388:2003-2.2.4.3

Sizes: S. M. L. XL  
Ref: 1234800



Ansell 23-491 Winter Hi-Vis Glove

Warm, weatherproof and resists oils and grease.

- Full fluorescent PVC coating.
- Insulated liner.
- Knitted wrist.
- Ideal for all high visibility applications, in all weather.

Approved to: BS EN 388:1994-3.1.2.1 and BS EN 511-1.1.1

Sizes: 10  
Ref: 1504600



Ansell PowerFlex® T 80-400 Hi-Vis Thermal Glove

Provides outstanding insulation from cold conditions as well as high levels of grip.

- Thermal terry loop acrylic liner.
- Comfort and protection in temperatures down to -30°C.
- Hi-Vis yellow liner for increased visibility.
- Seamless knitted liner for comfort.
- Latex coating for secured grip.
- Ideal for refrigeration and cooling plants.

Approved to: BS EN 388:2003-x.2.3.1, BS EN 511-0.2.0 and BS EN 407-x.2.x.x.x.x

Sizes: 7. 8. 9. 10  
Ref: 1504700



## Skytec® Argon Thermal Gloves

This glove features a unique HPT foam ¾ coating which remains flexible to temperatures as low as -50°C. A breathable two-layer insulated liner also ensures that these gloves remain warm, soft and comfortable. Ideal for applications involving secure handling and high levels of dexterity in harsh conditions.

- Suitable for mechanics, oil and gas industry and construction.
- ¾ Coating provides excellent grip in wet and dry conditions.
- Thermal liner provides warmth while retaining excellent flexibility.
- Actifresh treated which kills bacteria and promotes freshness.
- Black colouring to hide dirt.

**Approved to:** BS EN 388:2003-3.2.3.2 and BS EN 511-0.2.0

**Sizes:** 8. 9. 10

**Ref:** 14G4800



## Skytec® Argon Fully Coated Gloves

Fully coated thermal glove. Ideal for work in harsh conditions where secure grip is a must.

- Warm, comfortable and durable.
- Soft acrylic inner – ideal for working outdoors or in cold weather.
- Anatomically designed, remains comfortable for longer.
- Secure grip, even when wet.

**Approved to:** BS EN 388:2004-2.2.3.2

**Sizes:** 8. 9. 10

**Ref:** 14G7400



## Marigold Nitrotough™ N1700 Insulator Glove

Fully coated nitrile thermal glove.

- Thermal lining provides warmth and protection in cold conditions.
- Rough nitrile coating provides excellent grip in dry or oily conditions and offers excellent abrasion resistance.
- Cat II Intermediate Design.

**Approved to:** BS EN 388:2003-4.1.2.1, BS EN 511-0.2.0 and compliant for food contact.

**Sizes:** 8. 9. 10

**Ref:** 1468900



## Arco Thermal Neoprene Gauntlet

If you are looking for a glove that provides a chemical or liquid barrier, excellent grip in wet or dry conditions and thermal protection then this is the perfect glove for you. The thermal neoprene gauntlet includes a thick yet dexterous lining to keep hands warm and snug, ideal for cold working environments whether indoors or outdoors.

- Soft neoprene outer, provides chemical and liquid barrier.
- Thermal liner keeps hands warm and comfortable.
- Slip resistant grip pattern for wet and dry handling.
- Bonded coating for all-over chemical protection.
- Gauntlet length for additional wrist protection.
- Lightweight for dexterity and comfort.

**Approved to:**

EN 388:2004-3.1.1.1, EN 374:2003-A.K.L and approved for food contact – compliant to the European Regulation 1935/2004.

**Sizes:** 8. 9. 10. 11

**Ref:** 14A2800



## Freezemaster Cryogenic Glove

Insulated cryogenic gauntlet, suitable for the handling of extremely cold objects.

- Water resistant coating incorporating waterproof inner membrane.
- Fleece liner provides exceptional warmth and comfort in extreme cold conditions.
- Gauntlet style allows for the glove to be quickly removed in the event of a major spill of freezing liquid.
- Ideal for Storage Freezer Duties, Cold Room applications, Pharmaceutical Laboratory Work, Frozen Food Processing, Genetics & Biotechnology, Fertility Clinic work, Cryogenic Gas Bottle Handling.
- 39cm in length.

Caution: Not designed to withstand immersion in liquid nitrogen or cryogenic liquids.

**Approved to:** BS EN 388 and EN511

**Sizes:** M. L

**Ref:** 14P1400





# Footwear

Comfort is a key aspect when working on your feet all day as a worker suffering from discomfort is less likely to be alert and more likely to act unsafely resulting in an accident. We carry a large range of safety footwear including safety boots, hiker safety boots, shoes and wellingtons suitable for various climate conditions.



### Dr. Martens Tamarack ST Black Safety Boot

- A high quality safety boot with fully waterproof, Thinsulate™ thermal lining, Smartmask® PU cushioned footbed with heavily cleated heat-resistant rubber outsole.
- Cosmo™ HBR® waterproof membrane with Lunar lining and Quilted B200 Thinsulate™ lining to keep feet warm and dry.
  - Nitrile rubber and EVA outsole with steel puncture resistant midsole for ultimate comfort and safety.
  - Heavy duty metal eyelets and fastenings for increased durability.
  - Industrial oiled corrected full-grain water-resistant leather padded collar for comfort and ankle support.
  - Padded tongue & Industrial strength cord lacing.

Approved to: 200 joule EN ISO 20345.  
Sizes: 6 – 12    Ref: 6M4700



### Dr. Martens Kestral Rigger

- Classic rigger style.
- Gaucho full-grain waxy leather upper.
  - Cosma™ HBR® waterproof membrane construction for breathability.
  - High-wicking lining for extra comfort.
  - Tred rubber outsole offering heat-resistance to 300°C.
  - Anti-static.
  - Steel midsole.
  - Smartmask™ cushioned footbed providing extreme comfort, ideal when working on your feet all day.
- Approved to: 200 joule EN ISO 20345.  
Sizes: 6 – 12    Ref: 6M9600



### Arco Essentials Black Safety Wellington c/w Midsole

- The Arco Essentials range is affordable, ethically sourced and safety compliant. A practical and functional safety wellington boot.
- Resistant to; minerals, animal and vegetable oils & fats, various disinfectants and chemicals.
  - Complete with stainless steel midsole offering protection to the whole foot.
- Approved to: 200 joule EN ISO 20345  
Sizes: 3 – 12    Ref: 593100



### Arco Essentials Green Safety Wellington c/w Midsole

- The Arco Essentials range is affordable, ethically sourced and safety compliant. Full safety wellington with toecap.
- Oil-resistant sole.
  - PVC and nitrile outsole.
  - Energy absorbing.
  - Anti-static.
  - Complete with midsole offering protection to the whole foot.
- Approved to: 200 joule EN345 or EN ISO 20345.  
Sizes: 3 – 12    Ref: 593200

# GORE-TEX® Footwear

GORE-TEX® Footwear is ideal for a wide range of activities. GORE-TEX® boots and shoes are engineered to keep feet dry and protect them by being durably waterproof, breathable and providing optimised climate comfort.



### Why invest in GORE-TEX® Footwear?

- Long-lasting quality that is industry proven.
- Quality footwear lowers procurement cost for the employer, you only need to buy one pair of boots rather than multiple cheaper, lower quality pairs.
- Reduces job-related accidents, injuries and illnesses because the wearer is not distracted by uncomfortable footwear.
- Adaptable for multi-climate conditions. In warmer climates perspiration is wicked away from the foot and in colder climates warmth is retained to make sure your feet stay comfortable.
- Perspiration is pulled away from the feet, keeping them dryer.
- Quick-drying fabric keeps feet warm and more comfortable.

The GORE-TEX® Laminate is combined with other high-quality fabrics to create uniquely specified footwear. All components (leathers, textile, laces, foams, and threads) as well as the entire shoe construction are application specific and uniquely tailored for the end use. All shoes and boots are subjected to rigorous quality inspections.

### Gore Centrifugal Test

The Gore Centrifugal Test determines the waterproofness of GORE-TEX® Shoes without harming the quality. Not even the smallest leak can get past this test. Shoes are filled with water, the centrifuge rotates with 240 turns per minute. Any leak is quickly discovered.



### Gore Walking Simulator

The Gore Walking Simulator tests the waterproofness of GORE-TEX® Footwear. For professional applications, mechanical feet with the test shoes take up to 300.000 500.000 flex cycles in a water bath 5cm deep.

If water enters the shoe, the simulator stops and an LED indicates where the leakage has occurred and counts the number of flexes. The inside lining of the footwear must remain absolutely dry throughout the test. For comparison: The low footwear standard **EN ISO 20345** requires only 1,000 steps in shallow water and permits 3 cm<sup>2</sup> ingress of water.

**Gore's standard for waterproofness is much higher than the EN ISO standard**

The table below shows the criteria for the EN ISO standard, compared to Gore's own tests for waterproof footwear.

	GORE-TEX® Footwear	EN ISO 20345/347
Waterproofness	300.000 m	500 m
Tested water level	up to vamp	sole line
Allowed water entry	none	up to 3 cm <sup>2</sup>

### Gore Whole Boot Comfort Test

The Gore Whole Boot Comfort Test determines the breathability of GORE-TEX® Shoes by testing the whole shoe, not only individual components. The effect of a perspiring foot in the shoe is simulated in a temperature controlled microclimate. Using moisture vapour transfer and absorption, a climatic factor is determined that represents a minimum standard of quality depending on the use of the shoe.





Trojan® GORE-TEX® Safety Trainer

Hardwearing, leather and mesh GORE-TEX® Safety Trainer.

- Waterproof and breathable GORE-TEX® Bootie lining for maximum waterproof protection and comfort.
- Rubber/EVA sole combines durability with excellent slip resistance.
- Lightweight leather and mesh upper aids breathability.
- Anti-static.
- Composite toecap and midsole.
- Smartmask™ deluxe footbed providing extreme comfort, ideal when working on your feet all day.

Approved to: 200 joule EN ISO 20345.

Sizes: 6 – 12    Ref: 6P1100



Trojan® GORE-TEX® Safety Hiker Boot

Hardwearing, leather and mesh GORE-TEX® Safety Hiker.

- Waterproof and breathable GORE-TEX® Bootie lining for maximum waterproof protection and comfort.
- Rubber/EVA sole combines durability with excellent slip resistance.
- Lightweight leather and mesh upper aids breathability.
- Anti-static.
- Composite toecap and midsole.
- Smartmask™ deluxe footbed providing extreme comfort, ideal when working on your feet all day.

Approved to: 200 joule EN ISO 20345.

Sizes: 6 – 12    Ref: 6P1200



DeWALT® Apprentice GORE-TEX® Honey Safety Boot

Lightweight and flexible waterproof GORE-TEX® lined safety boot that keeps feet dry and comfortable.

- Nubuck leather upper.
- Aerospace mesh lining, high-wicking for extra comfort.
- Durable rubber outsole with moulded EVA footbed for increased comfort.
- Anti-bacterial dual-density removable footbed.
- Heat-resistant to 300°C.
- Steel toe cap and midsole.

Approved: 200 joule EN ISO 20345.

Sizes: 6 – 12    Ref: 6M9500



Wolverine® Harden GORE-TEX® Safety Boot

An oiled nubuck leather upper hiker boot that is built to last.

- Breathable waterproof GORE-TEX® Membrane lining.
- Removable full-cushion footbed with mesh sock liner.
- Compression moulded EVA midsole.
- Rubber outsole.
- Cement construction.
- Steel toe cap and midsole.

Approved to: 200 joule EN ISO 20345.

Sizes: 6 – 12    Ref: 6M8600



Trojan® GORE-TEX® Walker Black Safety Boot

Stylish, hard wearing, GORE-TEX® Walking Safety Boot.

- Waterproof and breathable GORE-TEX® Bootie lining for maximum waterproof protection and breathability.
- Black full grain durable leather upper.
- Rubber/EVA sole combines durability with excellent slip resistance.
- Anti-static.
- Composite toe cap and midsole.
- Smartmask™ deluxe footbed providing extreme comfort when working on your feet all day.

Approved to: 200 joule EN ISO 20345.

Sizes: 3 – 14    Ref: 6P1300



Trojan® GORE-TEX® Walker Brown Safety Boot

Stylish, hard wearing, GORE-TEX® Walking Safety Boot.

- Waterproof and breathable GORE-TEX® Bootie lining for maximum waterproof protection and breathability.
- Brown oil durable leather upper.
- Rubber/EVA sole combines durability with excellent slip resistance.
- Anti-static.
- Composite toe cap and midsole.
- Smartmask™ deluxe footbed providing extreme comfort when working on your feet all day.

Approved to: 200 joule EN ISO 20345.

Sizes: 6 – 12    Ref: 6P1400

Socks

To get the best results from your GORE-TEX® Footwear

It is best to wear non-cotton socks when wearing GORE-TEX® Footwear as cotton socks act like a sponge. Socks that have the following proportions: over 50% wool or synthetics e.g. polyacrylic fibre, polyamide, polypropylene, will work best and offer the best results.



Trojan® Black Wool Blend Sock

High performance wool sock for unbeatable comfort.

- Vented panels to aid breathability and moisture control.
- Comfort ribbed leg with elasticated arch support.
- 55% Virgin Wool, 17% Acrylic, 29% Polyamide, 1% Elastane.
- Pack of 1 pair.
- Ideal for use alongside GORE-TEX® footwear.

Sizes: One size 6 – 12

Ref: 2647400



Heat Holders Thermal Socks

Heavy bulk yarn with extra long pile to provide ideal conditions for heat retention.

- Extra long terry cushioning.
- Intensely brushed on the inside for warmth.
- Keep feet warmer for longer.
- 91% Acrylic, 5% Elastane, 4% Nylon.
- Pack of 1 pair.

Sizes: One size 6 – 11

Ref: 2634500



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