

# Welding Personal Protection and Safety Equipment

## An **Expert Guide**

Head, Eye and Face  
Respiratory  
Clothing

Footwear  
Gloves

Workplace Safety &  
Factory Equipment







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Arco is the UK’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 and 40 strong local Sales Office and 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.



Ethical Trading Initiative



Our Service

As legislation changes rapidly, we continue to source the latest in technological innovation and work with the leading manufacturers in order to keep people safe at work and to ensure that you comply with the most current legislation.

We work with all the trusted names in safety and we offer an unrivalled choice of Personal Protective Equipment (PPE) to satisfy the demands of working in hazardous environments. As part of our commitment to safety this expert guide is designed to provide guidance on identifying, managing and controlling the risks of welding, by advising about the correct personal protective equipment and workplace safety products for the environment.

The Health and Safety at Work Act 1974 states that it is the employer’s duty to ensure their employees are safe from harm whilst at work, as far as reasonable, practicable, safe and without risks to health.

The Personal Protection Equipment at Work Regulations 1992 and the Control of Substances Hazardous to Health states:

*The risk to health and safety should be assessed by how to prevent or reduce the workers exposure to the hazardous conditions and substances.*

The main requirement of the PPE at Work Regulations 1992 is that personal protective equipment is to be supplied and used at work wherever there are risks to health and safety that cannot be adequately controlled in other ways. It is imperative that anyone using PPE and workplace safety equipment is aware of why they need the equipment, when it should be used, repaired or replaced and if there are any limitations. Training is your duty as an employer and must be provided to demonstrate its use.

All of Arco’s PPE for welding conforms to all European Standards and is ‘CE’ marked, complying with the requirements of the Personal Protective Equipment Regulations 2002. The CE marking signifies that the PPE satisfies certain basic safety requirements and in some cases will have been tested and certified by an independent body.

We have brought to you a welding range of PPE and safety equipment to keep you safe while at work. We understand the challenges welders face, this is why it is paramount that the welding equipment is light in weight, ergonomic

in design and comfortable allowing you to work with precision. Items include head, eye and face protection, respiratory protection, clothing, footwear, gloves and workplace safety equipment.

Welding PPE and workplace safety equipment must be compatible for the application of work involved. Control measures of the conditions are a necessity to reduce harm to health. The equipment must be used in accordance with the manufacturer’s specifications and instructions.

Training and Consultancy

Arco Training and Consultancy is the specialist arm of Arco that’s dedicated to helping customers achieve, and maintain, full health, safety and environmental compliance.

The HSE’s approved code of practice (HSE 282/28) requires that all tight fitting respirators i.e. full masks, half masks and disposable are face fit tested.

We have the largest mobile team of qualified face fit testers, who can test on the full range of Respiratory Protective Devices (RPD) and a selection of specialist courses that will ensure your employees conform with Personal Protection Equipment and Respiratory Protective Equipment legislation.

Association of Welding Distribution



Arco are delighted to announce their newly approved membership into the Association of Welding Distribution (AWD). With a dedicated Code of Conduct, the association’s declared aim is to promote high professional standards within the welding distribution industry in dealing with customers, suppliers and competitors alike. An aspiration which closely mirrors one of Arco’s three core values – “Excellence in reputation”.



# Head, Face and Eye Protection

Safety and comfort is essential whilst welding. Our range of head, eye and face protection is light weight and ergonomic in design allowing for accuracy and precision when working with most arc welding processes. We have a variety of head, eye and face protection suitable for different applications of welding, providing protection from harmful UV radiation, infra red and molten metal (MM).

**Filter Shade Selection Chart:**

For guidance on the type of filter required during the arc welding process, review our filter shade selection chart.

Welding Process	Current Amperes																									
	0.5	1	2.5	5	10	15	20	30	40	50	60	100	125	150	175	200	225	250	275	300	350	400	450	500+		
Covered Electrode	Shade 9									Shade 10			Shade 11			Shade 12			Shade 13			Shade 14				
MIG Plate Welding	Shade 10												Shade 11			Shade 12			Shade 13			Shade 14				
MIG Sheet Metal	Shade 10												Shade 11			Shade 12			Shade 13			Shade 14			Shade 15	
TIG	Shade 9							Shade 10		Shade 11			Shade 12			Shade 13			Shade 14							
MAG	Shade 10											Shade 11		Shade 12		Shade 13				Shade 14			Shade 15			
Arc Gouging	Shade 10														Shade 11		Shade 12		Shade 13		Shade 14		Shade 15			
Plasma Cutting	Shade 11													Shade 12			Shade 13									
Plasma Welding	4	5	6	7	8	9	Shade 10		Shade 11		Shade 12		Shade 13			Shade 14					Shade 15					



**Welding Lens Selection Table**

Product Code	
4.1/4 x 3.1/4"	Lens
353007	Clear Polycarbonate
353015	Clear Glass
353008	Shade 8
353009	Shade 9
353010	Shade 10
353011	Shade 11
353012	Shade 12
353013	Shade 13
353014	CR39 Anti-spatter
110mm x 90mm	
353021	Clear Glass
353016	Shade 9
353017	Shade 10
353018	Shade 11
353019	Shade 12
353020	CR39 Anti-spatter

# Shields



**3M Speedglas 9100XX Welding Shield**

Professional welding shield ensuring you can work with precision and comfort, featuring side windows to enhance the field of vision.

- Seven shade settings (5, 8 and 9-13) for protection during gas welding, micro-plasma and low-amp TIG welding and most arc welding processes.
- Can be used in auto darkening or manual settings (shade 11).
- Increased cover for lower neck from heat and sparks.
- Sensors for arc detection in difficult lighting conditions.

Shield approved to EN 379

**Ref:** 3M5900 - Welding Shield

**Ref:** 3F0017 - Replacement Outer Plates 10 pack



**3M Speedglas 100 Welding Shield Blaze**

Affordable auto darkening welding shield for part time welders offering high levels of comfort.

- Exceptionally lightweight.
- Market leading graphic options.
- Suitable for most arc welding processes.
- Three sensitivity settings.
- Five user-selectable dark shades from 8 to 12, and a light shade of 3.

Filter approved to EN 379

**Ref:** 3M1000 - Welding Shield Blaze

**Ref:** 3M1100 - Filter Shade 3 8-12



# Helmets



**Futuris Auto Darkening Filter Welding Helmet**

Auto darkening filter (ADF) welding helmet offering full face coverage, DIN shades variable 9 – 13, filter 110 x 90 mm. Offers permanent protection against welding hazards, UV and IR rays.

- Filter darkens automatically when striking the arc, becomes transparent when the welding arc stops.
- Also equipped with a manually variable shade setting, DIN 9 – 13.
- Power provided by solar cells, no changeable batteries or power switch.
- Front face designed to allow spatter to roll off instead of pooling.
- Cut-away shape prevents contact with shoulders and chest can be worn easily with disposable respirators.
- Available in plain black or racing-stripes versions.

Approved to EN 379 & EN175

**Ref:** 353000 - Welding Helmet Black

**Ref:** 353001 - Welding Helmet Racing Stripes



# Head & Hand Shields



**Centurion Connect Welding Screen**

Can be used in conjunction with the Connect range of accessories, fitting to the Centurion range of helmets.

- High impact resistant shell.
- Adjustable nod-down facility.
- Flip-up lens holder takes a 108 mm x 83 mm lens purchased separately.

**Ref:** 354600



**Arco Welding Handshield**

Comfortable hand held polypropylene welding shield, ideal for short duration welds.

- Complete with shade 11 welding lens, not replaceable.
- Inside handle.
- Fixed glass holder: 90mm x 110mm.

Approved to EN 175.

**Ref:** 392000



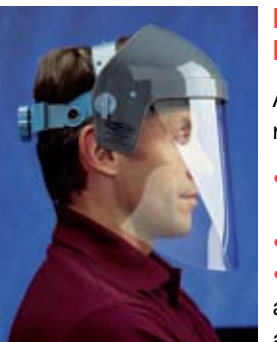
**Arco Welding Headshield**

Lightweight high impact polypropylene welding helmet.

- Complete with shade 11 welding lens, not replaceable.
- Ratchet style head harness assembly.
- Fixed glass holder: 90mm x 110mm.

Approved to EN 175.

**Ref:** 391000



**Honeywell Supervisor Headshield**

A robust, heavy duty faceshield range.

- Browguard has ratchet headband, visors sold separately.
- Full face protection.
- Creased visor eliminates gaps and profile follows contour of face allowing unrestricted movement.

- Helmet-mounted visor holders are available, along with specifically designed visors to allow compatibility with helmet-mounted muffs.

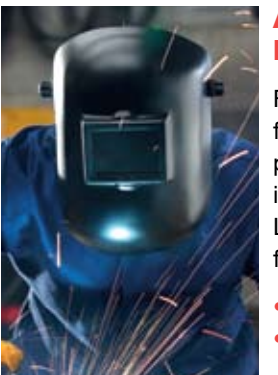
Browguard approved to EN 166 39B.

**Ref:** 345100 Browguard Ratchet Headband

**Ref:** 345500 Polycarbonate Anti Glare Visor Green Shade 1.7

**Ref:** 345800 Acetate Welding Visor Shade 3

**Ref:** 345900 Acetate Welding Visor Shade 5



**Arco Glassfibre Headshield & Handshield**

Full welding helmets manufactured from glassfibre offering maximum protection against welding hazards, including heat and light intensity. Lighter in weight than traditional fibre glass products.

- Available as standard and long
- Lenses to be purchased separately

- Fixed window: 4 ¼ x 3 ¼ " / 110mm x 80mm
- Fully adjustable ratchet headgear ensuring a quick, easy and firm fit
- Glassfibre offers resistance to extreme levels of radiant and contact heat

Approved to EN 175

**Ref:** 353004 Headshield

**Ref:** 353006 Headshield Long

**Ref:** 353005 Handshield



# Goggles

## Arco Welding Visitor Eye Shield/Over Spec

Economical welding eyewear ideal for welding applications, visitors and wearing over prescription spectacles.

- Wrap-around style with single lens.
- Moulded browguard and vented side arms.
- Can be worn over most prescription spectacles.
- Available in welding shade 5 or shade 3.

Approved to EN 166 1F.

Supplied in boxes of 10

Ref: 3G3000 - Arco Weld Shade 3 Visitor Eye Shield/Over Spec

Ref: 3G4000 - Arco Weld Shade 5 Visitor Eye Shield/Over Spec



## Arco Welding Box Goggles

Soft PVC frame box type flip front welding goggle.

- Shade 5 lift type lens 2" x 4 1/4".
- ABS lens holder.
- 6 indirect vents.

Approved to EN 175.

Ref: 393000



## Arco Panoweld Welding Goggle

Comprehensive eye protection for gas welders.

- Wide field of vision.
- Spatter resistant acetate lens.

Conforms to EN 166 and EN 169.

Ref: 361600 Shade 3

Ref: 361800 Shade 5



## Arco Welding Round Lens Goggles

Soft PVC frame round lens flip front welding goggle.

- 50 mm round lenses, Shade 5.
- Indirect ventilation.

Approved to EN 175.

Ref: 394000



## uvex Ultravision Welding Goggle

Shade 5 welding goggle with panoramic field of vision.

- Unrestricted side visibility
- Wide, fully adjustable headband
- Can be worn over most prescription spectacles
- Compatible with uvex disposable and half mask respirators

Approved to EN 166 1F and EN 169.

Ref: 321600



# Grey Lens Technology

uvex

## uvex Welding Eyewear

New welding lens technology available with grey tint lenses. Offers protection from welding hazards, UV and infrared light, with no loss of colours.

- Perfect colour recognition is maintained, losing the traditional "green" vision.
- Grey lens makes these spectacles suitable for sun glare, as well as welding.
- Available in a number of tints for various protection classes.
- Permanent anti-mist on the inside to prevent fogging.
- Extreme scratch-resistance on the outside, keeping damage from welding sparks to a minimum.
- i-vo in shades 1.7, 3 and 5. Side arm inclination and length adjustable.
- super fit in shades 1.7 and 3. At 21 grams, lightest welding spectacle available.
- super fit OTG in shades 3 and 5. Fits over most prescription spectacles.
- Approved to EN 166, EN 172.



Ref: 3U6000 - uvex i-vo welding Shade 1.7

Ref: 3U6100 - uvex i-vo welding Shade 3

Ref: 3U6200 - uvex i-vo welding Shade 5



Ref: 3U6700 - uvex ultrasonic flip-up Goggle Shade 3

Ref: 3U6800 - uvex ultrasonic flip-up Goggle Shade 5

Ref: 3U6900 - uvex Spare Lens Shade 3

Ref: 3U6110 - uvex Spare Lens Shade 5



Ref: 3U6300 - uvex super fit welding Shade 1.7

Ref: 3U6400 - uvex super fit welding Shade 3



Ref: 3U6500 - uvex super fit OTG welding Shade 3

Ref: 3U6600 - uvex super fit OTG welding Shade 5



# Respiratory Protection 3M Powered Respirators

Employers must provide suitable respiratory protection to employees who need it, give proper training in its use, maintain it in good order and keep records.

The main respiratory hazards to be aware of in welding are particulate welding fume and gases and vapours which can cause health problems if you're not protected properly.

At Arco we offer a range of respiratory protective equipment for welders. The type of product selected will depend on many factors including the type and duration of use.

**DISCONTINUED**



The 3M Dustmaster has been discontinued, and whilst selected spares are still available for several years, now is the time to upgrade to the **3M Adflo Powered Air Respirator System**, specially designed for welding.

## The 3M™ Speedglas™ 9100 Air Welding Systems

3M Speedglas 9100 Air Welding Systems combine the 3M Adflo powered air turbo unit and the 3M Speedglas 9100 air welding shield to create **the perfect solution for the professional welder.**

### Lighter weight:

Compact, slim, lightweight and ergonomically designed - all in one system!

### More comfort:

The lower pivot point greatly increases the balance and stability of the face shield, whilst the innovative head suspension design ensures a better, more secure fit without the need to over-tighten the headband.

### More control:

Increased versatility with greater optical control ensures the highest levels of performance.

## 3M Speedglas 9100 MP Welding & Safety Helmet



## 3M Speedglas 9100 Air Welding System Features & Benefits:

Ergonomically designed, highly adjustable shield for exceptional comfort and optimised coverage for ears and neck.

Optional side windows for an extended field of vision.

Audible and visual alarm system.

Battery and filter life indicators.

Multifunctional Auto-Darkening Filter (ADF) for the professional welder, including 7 variable dark shades.

Adaptable system, able to protect against particles, gases and vapours depending upon the filter selection.

Spark arrester included.

### The starter kit includes:

3M Speedglas 9100 welding shield, 3M Adflo turbo unit, Belt, Spark arrester, Pre-filter, Particulate filter, Battery charger, Standard battery, Auto Darkening Filter (ADF) variable Shades 5,8,9-13. 3 Sizes - V,X,XX

### 3M Speedglas 9100V Air Welding System:

9100 Air Shield with 9100V ADF and Adflo (20A0600)

9100 Air Shield with 9100X ADF and Adflo

9100 Air Shield with 9100XX ADF and Adflo

### 3M Speedglas 9100 MP Welding System:

9100 MP Welding & Safety Helmet with 9100V ADF and Adflo

9100 MP Welding & Safety Helmet with 9100X ADF and Adflo

9100 MP Welding & Safety Helmet with 9100XX ADF and Adflo

**Breathing Tubes:** 3M 834000 Adflow Hose (20C0011)

**Filters and Seals:** 3M Adflo Turbo Odour Filter (20C0003) 3M 434001 Face Seal (3F0028)

**Batteries:** 3M Adflo Battery Charger (20C0015)

# Respiratory Protection Powered Respirators



## Sundstrom SR500/584 Complete System - NEW



Combined respiratory and head protection with a built-in welding shield.

- Flip-up welding shield with clear visor underneath for grinding.
- Supplied with shade 10 welding lens.
- Takes 90 x 110mm welding lens.

Classification TH3.

Approved to EN175, EN 166, EN12941:1998.

Assigned Protection factor 40.

Each system is supplied complete with:

SR500 Powered Unit

SR584 welding headtop and hose

Battery and charger

Waistbelt

2 x Filter Adaptors

2 x P3 Particulate Filters

5 x Pre-Filters

Flow Meter

Ref: 1C5500 Complete System

Ref: 1C5700 Headtop

## Sundstrom SR 500 Power Unit & Breathing Tube

- Complete with battery and charger.
- Supplied with filter adaptors and 2 x P3 filters.

Ref: 1C9301

Access the full extensive range of products, consumables and spare parts from Arco by visiting [www.arco.co.uk/welding](http://www.arco.co.uk/welding)



# Respiratory Protection Valve Respirators

## Arco Premium P2 Valved Welding Respirator

Completely metal free respirator featuring latest filter technology for reduced breathing resistance. Activated carbon layer offers protection against dusts and oil/water-based mists, metallic fume, ozone and nuisance odours below the WEL.

- Mesh shell helps retain shape and prevents collapse onto the face.
- Exhalation valve reduces temperature and humidity within the respirator: low profile aids field of vision.
- Nose clip-free: pre-formed shape removes need for regular adjustment.
- Fully adjustable head strap enhances excellent fit.
- Grey coloured mesh denotes FFP2 for welding/metal working.

Approved to EN149:2001

Ref: 1E3000 Pack of 20 - Arco Premium Fold-Flat P2 Valved Welding Respirator

Ref: 1E2400 Pack of 5 - Arco Premium P2 Valved Cupped Welding Respirator



## Arco P2 Valved Welding Respirator

Activated carbon layer offers protection against dusts, oil/water-based mists, metallic fume, ozone and nuisance odours below the WEL.

- Soft metal nose clip allows adjustment for comfortable fit.
- Adjustable headstrap with quick release buckles.
- Exhalation valve reduces temperature and humidity within the respirator.
- Dolomite test "D" resists clogging longer.

Approved to EN149:2001

Ref: 1AB100 Pack of 5



## 3M 9928 Valved Premium Welding Fume Respirator

Flame retardant outer surface minimises the effect of welding spatter, carbon layer provides protection against welding fume and ozone gas, dusts and oil/water-based mists.

- Adjustable headband with quick-release premium buckle strap for a firmer fit.
- Soft inner face seal ring provides secure fit and increased comfort.
- Robust shell, and cup design, conforms well to most face shapes and sizes. Maintains shape well during use.
- 3M Cool Flow™ valve removes heat, exhaled air and moisture. Reduces the risk of misting eyewear.
- Dolomite test "D" resists clogging for longer.

Ref: 114200 Pack of 10





# Clothing



Clothing should be selected to suit the level, duration and purpose of the welding activity. Full covering of your body with flame retardant clothing is essential. Arco always considers the protection of the wearer to be of paramount importance and there can be no compromise on safety or comfort.

EN ISO 11611: 2007 is the workwear standards for welding clothing. Under this new standard clothing is now tested for vertical anti-static, along with the clothing seams also being tested for anti-static and flame spread.

In addition to the new parameters, welding clothing must be tested after the maximum number of laundry cycles a garment manufacturer states to ensure it is safe and fit for purpose.


Numerous Arco representatives are accredited advisors of the Roots Flame Retardant workwear which is INSPEC approved. The ROOTS Educational Training Programme covers Flame Retardant and Associated Standards, various Flame Retardant (FR) fabric features and benefits, garment demands, production timelines and the importance of correct laundry procedures.

Welding Clothing Requirements:


Requirement	Class 1	Class 2
Impact of Spatter	15 drops	25 drops
Heat Transfer (radiation)	RHTI 24 ≥ 7 seconds	RHTI 24 ≥ 16 seconds

Type of welders' clothing	Selection criteria relating to the process	Selection criteria relating to the environmental conditions
Class 1	<b>Manual welding techniques with light formation of spatters and drops, e.g.:</b> <ul style="list-style-type: none"><li>• Gas welding</li><li>• TIG welding</li><li>• MIG welding</li><li>• Micro plasma welding</li><li>• Brazing</li><li>• Spot welding</li><li>• MMA welding (with rutile-covered electrode)</li></ul>	<b>Operation of machines, e.g. of:</b> <ul style="list-style-type: none"><li>• Oxygen cutting machines</li><li>• Plasma cutting machines</li><li>• Resistance welding machines</li><li>• Machines for thermal spraying</li><li>• Bench welding</li></ul>
Class 2	<b>Manual welding techniques with heavy formation of spatters and drops, e.g.:</b> <ul style="list-style-type: none"><li>• MMA welding (with basic or cellulose-covered electrode)</li><li>• MAG welding (with CO2 or mixed gases)</li><li>• MIG welding (with high current)</li><li>• Self shielded flux core arc welding</li><li>• Plasma cutting</li><li>• Gouging</li><li>• Oxygen cutting</li><li>• Thermal spraying</li></ul>	<b>Operation of machines, e.g. of:</b> <ul style="list-style-type: none"><li>• In confined spaces</li><li>• At overhead welding/cutting or in comparable constrained positions</li></ul>


Key to symbols To make selection easier, every hazard protection garment has a symbol to help you easily identify the correct protection.




**EN 343:2003** Protection against rain 3 classes of performance based on water resistance or breathability of the garments.




**EN ISO 11612:2008** Protective clothing to protect against heat and flame (replaces EN 531 – still accepted for garments already certified). Protection for workers where there is a need for clothing with limited flame spread properties. Protection for the wearer when exposed to radiant, convective or contact heat or to molten metal splashes.




**EN ISO 14116:2008** Protective Clothing to protect against heat and flame – limited flame spread (replaces EN 533 – still accepted for garments already certified). Protection for workers against occasional and brief contact with small igniting




flames, where there is no significant heat hazard and without the presence of another type of heat.




**EN ISO 11611:2007** Protective clothing for use in welding and allied processes (replaces EN 470-1 – still accepted for garments already certified). 2 classes of performance of protective clothing (including hoods, aprons, sleeves and gaiters) designed to protect wearer during welding and allied processes.



**IEC 61482** Protective clothing against the thermal hazards of an electric arc. EN 61482-1-2 Arc in the box test method Class 1=4kA Class 2=7kA IEC 61482-1-1 Open arc test method Measures Arc Thermal Performance Value (ATPV) Arc rating measured in cal/cm².



**EN 1149** Protective clothing with electrostatic properties. This standard covers two test methods (EN 1149-1/EN 1149-3) and the performance requirements (EN 1149-5). It specifies material and design requirements for electrostatic dissipative protective clothing used as part of a total earthed system to avoid incendiary discharge of static electricity.



**Chemical Protection EN 13034:2005** Protective clothing against liquid chemicals. Liquid chemical protective suits (Type 6) Partial body protection (Type PB (6)). Minimum requirements for limited use and re-useable limited performance chemical protective clothing.

# Jackets



Roots All Weather FR Anti-static Jacket

The first welding jacket in the market to provide dual protection against molten metal as well as foul weather.

Conforms to:

- EN 340:2003
- EN 343:2003+A1:2007 (3/3)
- EN ISO 11611:2007 (Class1-A1):50 washes
- EN ISO 11612 : 2008 (A1 B1 C1 D0 E3 F1):50 washes
- EN 1149-5:2008
- EN 13034:2005+A1:2009 Type PB (6)
- IEC 61482-2:2009 (Class 1)

Sizes: S – XXL

Ref: 18R1400





# Coveralls



**Roots Hotworker Coverall Navy**

The Hotworker coverall is packed full of features for people who work all day carrying tools, welding rods and other equipment, the Hotworker features Weldprotector fabric for comfort and durability.

- Weldprotector 100% cotton Pyrovatex FR treated 450 g/m Moleskin sateen weave material.
- KEE zip fastening concealed behind double flap.
- Oversized breast pockets.
- Toolbar feature above left breast pocket.
- Double rule pocket.
- Two side swing pockets with concealed zip closing trouser access.
- Two oversized rear pockets with flap.
- Two internal kneepad pockets to suit Trojan Kneepad (8M1000).

**Conforms to:**

EN 340:2003  
EN 1149-5:2008  
EN ISO 11611:2007 (Class 2-A1):50 washes  
EN ISO 11612:2008 (A1 B1 C2 D0 E3 F1):50 washes  
IEC 61482-2:2009 (Class 1)

**Sizes:** 38" - 54"

**Ref:** 18A7500



# Coveralls



**Roots Archbuster Coverall Navy**

Designed for the serious professional welder, utilising Weldprotector fabric.

- Weldprotector 100% cotton Pyrovatex FR treated 450 g/m Moleskin sateen weave material.
- Concealed heavy duty jeans button fastening.
- Two internal chest pockets.
- Two front swing pockets.
- Two internal kneepad pockets to suit Trojan kneepad 8M1000.
- Two large hip pockets with flap.

**Conforms to:**

EN 340:2003  
EN 1149-5:2008  
EN ISO 11611:2007 (Class 2-A1):50 washes  
EN ISO 11612:2008 (A1 B1 C2 D0 E3 F1):50 washes  
IEC 61482-2:2009 (Class 1)

**Sizes:** 38" - 54"

**Ref:** 18A6800





# Coveralls



### Roots Multi-Protector Coverall Navy

- Flame retardant, welding approved and anti-static Multi-Protector Coverall, features the superb new Roots CR8020 fabric.
- 320g/m 80% cotton, 19% polyester, 1% negastat anti-static yarn.
  - Concealed stud front fastening.
  - Adjustable elasticated waist for comfort.
  - Action back for ease of movement.
  - Radio or gas detector loop/toolbar above left breast pocket.
  - Two hip pockets and two chest pockets with flap.
  - Two front swing pockets with trouser access.
  - External kneepad pockets to suit Trojan kneepad (8M1000).
  - Suitable for commercial laundry up to 95°C.

**Conforms to:**  
EN 340:2003  
EN 1149-5:2008  
EN ISO 11611:2007 (Class 2-A1):50 washes  
EN ISO 11612:2008 (A1 B1 C2 D0 E3 F1):50 washes  
IEC 61482-2:2009 (Class 1)  
EN 13034:2005+A1:2009 (Type 6)

**Sizes:** 38" - 54"  
**Ref:** 18A7600



# Accessories

### Impacto 879 Proban Kneepad

- Gel padded kneepad with 100% cotton durable flame resistant fabric.
- Provides protection when working around flame or sparks such as welding or grinding.
  - Double elastic straps with hook and loop closure.

**Ref:** 1832700



### Roots Welding Hood Navy

- For additional neck and head protection when welding in confined spaces, or in areas where there is heavy spatter.
- Weldprotector 100% cotton Pyrovatex FR treated 450 g/m Moleskin sateen weave material.

**Conforms to:** EN 340:2003. EN ISO 11611:2007 (Class 2-A1):50 washes.  
One size fits all  
**Ref:** 18A7800



### Roots FR Scarf

- Versatile inherent flame retardent scarf that can be worn in 5 different ways.
- Neck-warmer, face-warmer, helmet liner, balaclava or ninja-style.
  - Absorbs perspiration and wicks it away.
  - Anti-bacterial for improved hygiene.
  - Grey colour.
  - Max 50 washes.

Approved to EN340, EN 1149-5, EN ISO 11612.  
**Ref:** 352100



### Chrome Leather Welding Clothing

- Chrome leather welding clothing.
- Conforms to:** EN 470-1
- Ref:** CWJ/27in Jacket L: 1812300  
CWJ/27in Jacket XL: 1812400,  
CWJ/34in Jacket L: 1812500  
CWJ/27in Jacket XL: 1812600  
Apron 36in: 1812800  
Apron 42in: 1812900  
Sleeves 16in: 1813100





# Kromer Caps

The original American all cotton Kromer Caps, popular amongst welders.

The welding caps are comfortable, durable and washable. Double stitched construction with an absorbent cotton sweat band.

Kromer caps are to be worn as a fashion accessory and do not provide any flame retardant protection.



**Kromer caps**

**Ref:** B8949 Kromer Welding Caps\*

\*Pattern cannot be specified

**Testimonial:**

*“Arco has been a valued supplier to Babcock for a number of years. During that time they have provided many of our welding related PPE products, including protective clothing, gloves and footwear.*

*Their ability to provide consistently high-quality products from an extensive range via a first-class supply chain, as well as a willingness to work with us in providing bespoke solutions to specific problems, makes them a valuable supply partner. Their continued support helps us to ensure that Babcock remains the UK’s leading engineering support services company.”*

**Kevin Moore, Welding Engineer**  
Babcock International Group,  
Marine and Technology Division



# Footwear

Choosing the right safety footwear is important. Comfort and protection is a key aspect when working in any hazardous conditions. All our safety footwear is tested and approved to EN ISO 20345.

Our welding footwear is designed to protect the wearer from anti-static properties along with excellent shock absorption, cushion comfort and heat resistance to 300°C.

**Goliath Foundry Black Safety Boots**

- The most advanced foundry footwear available in Europe.
- Chrome tanned heavy duty leather.
  - Moisture wicking lining to vamp, all other areas unlined for maximum comfort in hot conditions.
  - Dual-density rubber sole for excellent durability, comfort and optimum shock absorption.
  - Quick release fasteners for rapid removal in case of molten metal splash.
  - Heat resistant to 300°C.
  - Anti-static.
  - Steel midsole.
- 200 joule EN ISO 20345.
- Sizes:** 6 – 12

**Welding Gaiters**

Heavy duty chrome leather gaiter designed to wear over work shoes and boots to offer protection against welding and grinding spatter/sparks.

Can be adjusted to fit via fastener.

Double stitched and riveted seams.

CE approved to EN 470-1

**Ref:** 1813500



**Ref:** Goliath Welding Black Safety Boot 6L5400

S3   HRO  FE  SRC



**Ref:** Goliath Mid Leg Foundry Black Safety Boot 6L5300









S3   HRO  FE  SRC



**Ref:** Goliath High Leg Foundry Black Safety Boot 6L5200

S3   HRO  FE  SRC

**Key to symbols**

							
En Standard*	Anti-Static	Heat Resistant °C	Heat Resistant Outsole	Steel Midsole	Foundry Footwear	Water Resistant	Slip Rating

\*S3: 200 joule toe cap protection, closed seat region (fully enclosed heel), anti-static properties, energy absorption of the seat region, water penetration and absorption resistance, penetration resistance, cleated outsole.



# Gloves

A series of hand protection solutions for all welding applications. Arco's welding range offers comfort, high performance, robust wear and excellent value.



### Arco 16in Premium Leather Yellow Welder's Gauntlet

Premium quality welder's gauntlet.

- Kevlar® stitching and welted seams for superior protection.
- Fully lined for extra comfort.
- Double palm for reinforcement and comfort.
- One piece back, no unnecessary seams.
- Longer length for additional forearm cover.

Cat II Intermediate Design.

Approved to BS EN 388:1994, BS EN 407:1994 and BS EN 12477.

One Size

Ref: 1259000



### Arco Sheepskin Tig Welders Gauntlet

Flexible high quality Tig Welders gauntlet.

- Sheepskin leather palm and fingers ensure a soft comfortable feel.
- Cow leather cuff provides robust protection.
- Reinforced thumb crotch for longer lasting performance.

Cat II Intermediate Design.

Approved to BS EN 12477 type B, BS EN 388 and BS EN 407.

Size 10

Ref: 1200600

**Key to symbols**  
We stay informed and keep up to date with all the current regulations regarding hand protection so you can rest assured you are in safe hands.



**Mechanical Hazard**  
Mechanical hazards are associated with the handling of rough or sharp objects which could abrade, cut or pierce the skin, such as glass, thin metal



### Arco 16in Premium Leather Red Welder's Gauntlet

High quality welder's gauntlet.

- Welted seams for added protection.
- Fully lined for extra comfort.
- Longer length for additional forearm cover.

Cat II Intermediate Design.

Approved to BS EN 388:2003, BS EN 407:1994 and BS EN 12477.

One Size

Ref: 1258800



### Arco Split Leather White Welder's Gauntlet

Quality cow split leather welder's gauntlet.

- 5in cuff.
- One piece back.
- Fully fleeced cotton lining.
- Welted seams.

Approved to BS EN 388:1994 and BS EN 407.

Size 10

Ref: 1200100

sheet and masonry blocks. A mechanical hazard is not associated with moving machinery, in fact, it can be extremely dangerous to wear gloves which could catch in moving parts or serrated blades.

**Performance Index Rating**  
4 = Abrasion (Performance Index 1-4)  
1 = Blade Cut (Performance Index 1-5)  
4 = Tear (Performance Index 1-4)  
1 = Puncture (Performance Index 1-4)  
(1 being the lowest performance rating)

### Arco 16in Premium Leather White Welder's Gauntlet

Premium quality welder's gauntlet.

- Kevlar® stitching and welted seams for superior protection.
- Fully lined for extra comfort.
- Double palm for reinforcement and comfort.
- One piece back, no unnecessary seams.

Cat II Intermediate Design.

Approved to BS EN 388:1994, BS EN 407:1994 and BS EN 12477.

One Size

Ref: 1258900



### Arco Hide Leather Brown Welder's Gauntlet

Our highest quality reinforced welder's gauntlet.

- Soft and strong leather for robustwear yet comfortable feel.
- Full five finger welder's gauntlet.
- One piece back, no seams to burn.
- Fully welted, no exposed seams.
- Kevlar® sewn throughout.
- Reinforced palm and thumb for increased wear.
- Full cotton lining.

Tested to BS EN 388:1994 and BS EN 407.

Size: 11

Ref: 1255700



### Ansell SafeKnit™ Guard 59-416 Welder's Sleeve

State of the art, high performance protective sleeve. Made from a combination of Lensing® and Kevlar® fabric with a cotton inner layer for comfort.

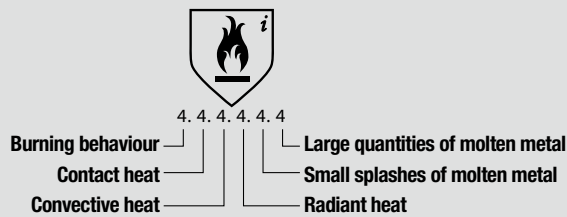
- Offers better cut, heat and splash protection than leather.
- Knitted Kevlar® wrist/hand with thumb slot.
- Velcro top closing for a secure fit.
- Washable.
- 26in (66cm) sleeve.
- Purchased singly.

Approved to BS EN 388 and BS EN 407.

Ref: 1552800



**BE EN407: 2004**  
This diagram details the testing categories for BS EN 407: 2004. A tested item is given a performance rating of 1 to 4 (lowest to highest) on some or all of the listed categories. Often an 'X' replaces a rating number which means that the corresponding test has not been performed.



**Contact Heat Times**  
The following table details the performance levels for the Contact Heat category:

Performance Level	Contact Temp (°C)	Threshold Time (seconds)
1	100	>15
2	250	>15
3	350	>15
4	500	>15



# Workplace Safety & Factory Equipment Products

Keeping you safe in your workplace is our priority. We have a wide range of welding products to keep your workplace safe and compliant. These tailored accessories enable you to continue welding in a safe environment and provide protection during the welding application.

## Workplace Safety



### Nederman Curtain Frame

Portable curtain frame for use when welding etc. Ideal for moving to and from work areas. Supplied complete with curtain 2 metre wide x 1.8 metre long.

**Ref:** 3217627

Also available in orange.



### Nederman Welding Curtains

Nederman welding curtains comply with EN1598 to block out welding light. The curtains are provided with seams all around with snapfasteners on both sides for joining. Supplied with reinforced holes and steel suspension rings. All curtains are 1.3 metre wide

**Ref:** 3217638

Also available in Transparent Bronze and Transparent Red.



### Smooth Glass Cloth

600°C short term use. 400°C static/continuous use.

A plain weavelocked glass cloth ideal for the following applications:

- Thermal insulation.
- Fire protection/blankets.
- Welding screens for protection against sparks.
- Smoke curtains.
- Electrical insulation.
- Hose insulation.

1 metre wide x up to 50 metre long.

**Ref:** 3512106

Also available in other sizes.



### Fortglas Weldstop GKPF 1106 Cloth

The original and best heat resistant welding cloth.

#### Heat Resistant:

- Weldstop™ withstands penetration from an oxygen enriched flame at temperatures in excess of 1500°C.

#### Molten Metal Resistance:

- Large metal droplets up to 70 gram can be successfully contained and allowed to cool on the fabric surface without penetration.

#### Abrasion Resistance:

- Weldstop™ has as much as 10 times the abrasion resistance of a silica cloth of similar weight and density and its effectiveness is not reduced by rough handling.

#### Flexibility:

- Weldstop™ has been treated to create a soft, flexible fabric that is easy to handle during use.

GKPF1106 - Rolls up to 50 metre.

GKPF1306 - Rolls up to 25 metre.

**Ref:** 3510213

Also available in other sizes.



### Spark Safe Anti Fatigue Mat

All rubber composition 2 layer anti-fatigue matting, recommended for welding stations.

- Repels sparks and hot metal shards.
- Provides improved productivity for the standing user.

Measures 10 mm high.

Supplied in black.

**Ref:** 5605202

Also available in other sizes.





# Factory Equipment

### Clarke Portable Generator 3kVA

This superb generator offers exceptional value for money, and suits a wide range of users who demand a reliable source of portable electricity. Ideal for domestic and leisure users, farmers, builders, local authorities and emergency services.



- Delivers up to 3.0kVA at 230v from a 16amp socket, and at 115v from 1 x 16amp and 1 x 32amp sockets.
- 8.0hp petrol engine with easy start recoil system.
- 25 litre fuel tank provides up to 13 hours continuous running at 3/4 load.
- Noise level only 69dB(A) at 7 metres (conforms to latest EU noise directive).

**Weight:** 65kg.

**Dimensions:** 683mm long x 539mm wide x 548mm high.

**Ref:** 3731025



### Clarke Portable Generator 2.8 kVA

Built into a sturdy all-steel frame to protect the unit and provide useful lifting and securing points, this entry level generator is ideal for DIY, leisure and commercial users alike.



- Delivers up to 2.8Kw output from two 13amp 3-pin sockets
- 6.5hp petrol engine with easy start recoil system
- 15 litre fuel tank provides up to 11 hours continuous running at 3/4 load
- Auxiliary 12v DC output for battery charging
- Noise level only 69dB(A) at 7 metres (conforms to latest EU noise directive)

**Weight:** 45kg.

**Dimensions:** 592mm long x 498mm wide x 432mm high.

**Ref:** 3731020



### Nederman Filtercart Original

The Filtercart Original is the best performer when it comes to welding applications. Supplied complete with a 3 metre long arm.

**Ref:** 3217826 110v  
3217825 240v



### Contractor Anti-Twist Cable Reel

Non-turning socket system for comfortable working.

- No more dangerous twisting of connected appliances when winding or unwinding.
- No more plugging in or out when moving the cable reel.
- Cable guide handle.
- 2 outlet sockets.
- Safety overload cut-out.
- 110 volt

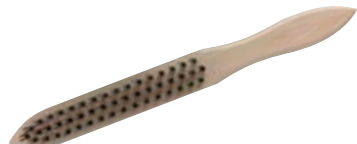
**Ref:** 3717530 (25m)  
3717531 (50m)



### Stainless Steel Wire Brushes

Stainless steel wire brush.

**Ref:** 31W0605



### Heavy Duty Wire Brush

32 mm heavy duty wire brush.

**Ref:** 3171302



### 4 Row Brass Wire Brush

225mm wood stock.

**Ref:** 3170900



### 4 Row Wire Brush with Scraper

4 row wire brushes with wood stocks.

**Ref:** 3171400



### 4 Row Plain Wire Brush

4 row wire brushes with wood stocks.

**Ref:** 3171300



### Wire Brush - Plastic Stock

225 mm wire brush – plastic stock.

**Ref:** 3170800



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