

	PERSONAL PROTECTIVE EQUIPMENT SPECIFICATION	ESKOM
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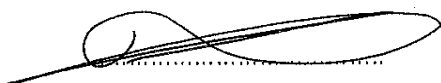
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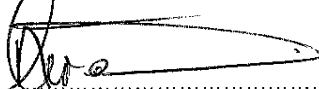
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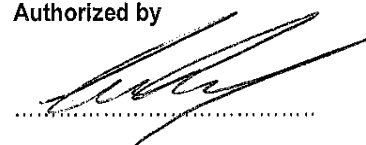
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FOREWORD

This Specification was compiled to satisfy the need for simplification and standardisation of Eskom's Personal Protective Equipment (PPE). This Specification will give Divisions/Operating Units/Business Units an understanding on the minimum requirements for PPE in Eskom.

In the case where a particular PPE requirement is not covered in this specification, the onus is on the Division/OU/BU to ensure that all safety requirements are complied with in accordance with the relevant standards, regulations or codes of practices for that specific PPE requirement.

Revision History

New Document.

Date	Rev.	Remarks
List effective date(s) of each previous revision.	0	Specify reasons for revision. List all changes to the document, as well as authorities for these changes.

Authorization

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Applicability

This Specification applies to all activities where PPE is required. This specification sets out Eskom's minimum PPE requirement to be met by contractors with the exclusion of the requirements stipulated with regard to the Eskom Corporate Identity.

This document shall apply throughout Eskom Holdings SOC Limited.

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Overview

The aim of this Specification is to specify the minimum requirements that shall apply to PPE used in Eskom.

The Operating Units may determine additional requirements to suit their own needs or working conditions, provided that the minimum requirements as set out in this specification are met as well as the relevant legislation, and such additional requirements does not expose an employee, or a member of the public to any risk.

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1. SCOPE

The purpose of this document is to prescribe the minimum requirements for Personal Protective Equipment used in Eskom.

This specification does not cover the requirements for specialised work such as Live Work, Fall Arrest Systems and any other specialised equipment that is not included herein.

The requirements for specialised work disciplines are covered in their respective standards and/or specifications.

2. NORMATIVE REFERENCES

Parties using this document shall use the most recent edition(s) of the document(s) listed in this section

Occupational Health and Safety Act No. 85 of 1993

SANS ISO 9001:2008: Quality Management Systems

SANS 416: Chemical resistant gloves

SANS 434: Boiler Suits and Work Wear suits

SANS 492: Protective and Safety Gum boots (Part 4), All made from rubber

SANS 1282: Barrier creams

SANS 1320: PVC Gumboots: Part 1, Injection-moulded Gumboots

SANS 1362: Sewing threads

SANS 1387-4,6,7: Woven cotton and similar apparel fabrics. Also see if part 1,8, 9, 11 is relevant and part 3

SANS 1397: Industrial Safety Helmet

SANS 1400: Equipment (including oculars) for eye, face and neck protection against non-ionizing radiation arising during welding and similar operations - Welding helmets, hand shields, goggles and welding spectacles

SANS 1404: Eye-protectors for industrial and non-industrial use

SANS 1423-1: Performance requirements for textile fabrics of low flammability.

SANS 1451-1: Hearing protectors Part 1 Ear muffs

SANS 1451-2: Hearing protectors Part 2 Ear plugs

SANS 1451-3: Hearing protectors Part 3 Ear muffs

SANS 1557: Sunscreen products

SANS 1822: Slide (zip) fasteners

SANS 10101: Standard nomenclature for stitches, seams and stitching

SANS 50136: Respiratory protective devices – Full face masks - Requirements, testing, marking

SANS 50140, Respiratory protective devices – Half masks and quarter masks – Requirements, testing and marking

SANS 50142, Respiratory protective devices – Mouth piece assemblies - Requirements, testing and marking

SANS 50143, Respiratory protective devices – Particle filters - Requirements, testing and marking

SANS 50149: Respiratory protective devices – Filtering half masks to protect against particles –Requirements, testing, marking

SANS 50381-2: Protective clothing for users of hand-held chain saws Part 2: Test methods for leg protectors

SANS 50381-5: Protective clothing for users of hand-held chain saws Part 5: Requirements for leg protectors

SANS 50471: High-visibility warning clothing for professional use - Test methods and requirements

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SANS CKS 129: Colours for Textiles

GPP 13551: Generation Policy on the Control of Clean Conditions When Working On Generators and Large Motors

Informative:

32-109: Brand Architecture and Corporate Identity Policy

32-288: Policy Procurement and Supply Chain Management Standard

32-599: Standard Procurement and Supply Chain Management Standard

32-727: SHEQ Policy

Eskom Corporate Identity Manual ESK AM AAA 1, Rev 1

3. DEFINITIONS AND ABBREVIATIONS

3.1 DEFINITIONS

- a) **Approved:** Means acknowledged and authorized in accordance with the authoritative governing body/ies, i.e. SANS, EN and so forth.
- b) **Employee:** Any person who is employed by or works for an employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person.
- c) **Networks:** The high voltage distribution, the reticulation as well as the low voltage networks.
- d) **Responsible Manager:** The manager formally appointed and within his/her delegation of authority is overall responsible to ensure occupational health and safety within the defined area of responsibility.
- e) **Risk assessment:** Overall process of hazard identification, risk analysis and risk evaluation.
- f) **PPE:** Equipment designed to be worn or used by any person to provide adequate protection from specific hazards in the workplace, when properly used.
- g) **Properly used:** Used with reasonable care and with due regard to any information, instruction or advice supplied by the designer, manufacturer, importer, seller or supplier, as the case may be.

3.1.1 Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

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3.2 ABBREVIATIONS

Abbreviation	Description
ATPV	Arc Thermal Performance Value
BS	British Standard
Cal/cm ²	Calories per square centimetre
EN	European Norms
MHSA	Mine Health and Safety Act
OHS Act	The Occupational Health and Safety Act, Act 85 of 1993.
PPE	Personal Protective Equipment
SANS	South African National Standard
T&Q	Technical and Quality

4. REQUIREMENTS

4.1 GENERAL

All PPE shall meet the following minimum requirements:

- Must be the last means of protection.
- Must be supplied to an employee free of charge and be readily available.
- Must be suitable and fit for purpose.
- Must be kept in good condition and be in working order
- Misuse of PPE should be discouraged to ensure proper protection of employees.
- When properly used, it must be capable of controlling the employees' exposure by providing adequate protection from specific hazards in the workplace.
- If required, must be compliant to the identified authorised body and comply with technical specifications for the identified PPE.
- Must be issued at a frequency that will ensure effective protection of employees and will depend on the condition of the equipment due to wear and tear or as specified by the BU manager. (Each business unit to enforce their own site specific procedure/process).

4.2 Duties of Employer

- Ensure that all information, instructions and training on the usage of PPE shall be communicated to all applicable employees prior to its use. This shall include the limitations of identified/specific work wear/accessory.
- An employer shall not require or permit any employee to work unless such an employee is issued with the required personal protective equipment and makes proper use thereof.

4.3 General Garments Specification

- Garments shall be cut and made in accordance with prescribed specifications standard and shall be free from defect that affect their appearance or may affect their serviceability (or both) and free from marks, spots and stains incurred during the manufacturing process.

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- b) All seams/stitching shall be in accordance with the prescribed national standard. Seams and stitching shall be free of twists, pleats, and puckers and shall be sufficiently extensible to obviate seams cracking and undue shrinkage in use.
- c) All ends of sewing that are not secured in seams or in other sewing shall be adequately back tacked.
- d) In order to improve visibility of employee's, all garments shall have reflective strips sewn on it.
- e) All ends of sewing shall be trimmed and loose threads removed.
- f) All garments shall be in accordance with the prescribed Eskom PPE design specification for the composition of these garments.
- g) The garment manufacturer shall receive a certificate of compliance from the manufacturer of the fabric confirming that the fabric complies to the SANS and EN specifications,
- h) Refer to Annex A for Ladies and Men's sizes (SANS 434).

4.4 MINIMUM STANDARD SPECIFICATIONS FOR HEAD PROTECTION

All hard hats must be of the type that has an adjustable three point webbing chin strap as prescribed in accordance with SANS 1397 and:

- a) The colour of the hard hats shall be white in accordance with Eskom's Corporate Identity.

Note: The Eskom Logo Must Be On The Front Of The Helmet.

- b) The colour of the Eskom logo on the hard hats shall be in accordance with Eskom's Corporate Identity.
- c) The Zero Harm slogan shall be silk screened on the left hand side of the hat.
- d) The hard hat shall have a reflective sticker with emergency numbers attached at the back.

4.4.1 Hard Hats

All working from height hard hats shall:

- a) Bear the SABS mark and in accordance with SANS 1397.
- b) Be purchased with an adjustable chin strap.
- c) Have an adjustable three point webbing chin strap in accordance with SANS 1397: Section 3.8.
- d) Have a shortened sun peak.
- e) Have limited side rims/gutter.
- f) Have a webbing suspension harness.
- g) Have a thick sweat band of +/- 4.5 cm (THICKNESS).
- h) Have adjustable head bands of standard size 53 cm to 63 cm.

4.4.2 Sun Brim (For Hard Hat)

- a) The shape of the brim shall be oval and shall have a front back and neck protector attached to bottom of the brim.
- b) The material shall be pre-shrunk 100 % woven cotton fabric in accordance with SANS 1387-4, material type D59, and flame retardant.
- c) The colours shall be Navy Blue. Pantone 19_3920.
- d) The Eskom logo shall be embroidered on the back flap in accordance with the Eskom Corporate Identity.
- e) Sun brim shall have a reinforced stiffened broad brim of at least 90 mm (Brim malgray chip board material 600 to 800gsm).
- f) Inside diameter 740mm (front to back 240mm and side to side 200mm).
- g) Outside front to back 430mm and from side to side 380mm.

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- h) The stitching shall comply with SANS 10101.
- i) The thread used shall comply with SANS 1362.
- j) Insert for hard hat front peak flap centre 130mm and side fitted to other brim.
- k) Insert for hard hat rear section centre 130mm and sides fitted to other brim.
- l) Neck protector at back centre 230mm long and sides fitted half way to outer sun brim protector.
- m) Velcro 40 by 25mm attach on left side of brim and rear insert of flap for stability.
- n) Cotton twill tape 20mm to be fit on inner, outer brim front and back peak supports and neck protector.
- o) Front peak support to be stitched down 70mm from other brim edge.
- p) Top bottom and inner layer shall have a minimum of 6 rows reinforcement stitching around the brim.

4.4.3 Hair Nets

- a) Hair Nets shall be made of pre-shrunk 100% soft woven cotton fabric in accordance with SANS 1387-4, Material Type D59, flame retardant SANS 1423-1.
- b) Hood with inside pocket for hair protection and additional ear protection.
- c) Velcro closure on hat harness, the hood will be bound with self-material binding length of hood 320mm, Width of hood 280mm, Pocket depth 220mm.

4.4.4 Soft Bush Hats

- a) The material shall be pre-shrunk 100 % woven cotton fabric in accordance with SANS 1387-4, material type D59, and flame retardant.
- b) The colours shall be Navy Blue. Pantone 19_3920
- c) The Eskom logo shall be embroidered on the front of the hat in accordance with the Eskom Corporate Identity.
- d) The Zero Harm identification shall be embroidered on the rear of the hat and shall be in accordance with Eskom's Corporate Identity.
- e) Soft hats shall have a reinforced stiffened broad brim of at least 80 mm.
- f) The stitching shall comply with SANS 10101.
- g) The thread used shall comply with SANS 1362.

4.5 MINIMUM STANDARD SPECIFICATIONS FOR EYE/FACE PROTECTION

Eye/face protection used shall be in accordance with:

In terms of robustness all eye protection must be constructed to protect against impact, non-adherence of molten metal, hot solids, liquids, and dust. Where applicable and based on a risk assessment eye-protectors shall be provided with at least brow guards, chin protectors, chin straps and visors.

- a) SANS 1404, Eye protectors for industrial and non-industrial use. This code specifies the characteristics of personal eye-protectors for industrial and non-industrial use. It covers eye protectors embodying a-focal or prescriptive lenses or combinations of these. The hazards covered are impact, molten metals, hot solids, dust, gases, liquids, and any combination of these.
- b) SANS 1400, Equipment (including oculars) for eye, face and neck protection against non-ionising radiation arising during welding and similar operations – welding helmets, hand shields, goggles and welding spectacles.

4.5.1 Spectacle Visitors

Lens and frame colour clear, lens tint clear and coating uncoated, temple style semi-dropped, brow protection both with side shield and vents, nose bridge non slip and compliance to CE-EN-166 and ANSI Z87.1.

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4.5.2 Spectacle Welders

Colour green frame colour black and lens tint welding shade 5.0. Lens coating, hard coat and adjustable drop temple also temple style drop with adjustable length and with universal nose bridge to compliance to ANSI Z87.1.

4.5.3 Goggles

Impact splash dust and mist resistant moulded lens and anti-fog coating to ANSI D3 D4. frame colour smoke, lens tint clear and coating anti fog anti scratch, temple style wider adjustable fabric strap with "d" slides comply to ANZIs87.1and CE-EN 166.g

4.5.4 Spectacle Sunglasses

- a) Type wrap around ballistic protection for harsh industrial environments.
- b) Frame colour black vented; lens tint Indoor-outdoor / clear or amber lens coating hard coat.
- c) Temple style drop with adjustable lengths; soft self-fitting rubber nose bridge, super coat protection with anti-fog, anti-scratch, anti-static and UV 100% ultraviolet protection (Amber 99% UV) comply to ANZI z87.1 and CE-EN 166; meet traffic signal colour recognition requirements of ANSI Z80.3.

4.5.5 Safety Eyewear Cord

- a) Colour black.
- b) Elastic slip on construction.
- c) Adjustable length.

4.5.6 Spectacle Storage Case

- a) Must be foam padded.
- b) Nylon eyewear case.
- c) Zipper closure with belt clip colour black to fit all spectacles.

4.5.7 Goggle/Earmuffs Storage Case

Oversize microfiber eyewear bag with drawstring; suitable for goggles or earmuffs.

4.5.8 Face Protection – Acid/Alkali Protection (SANS 1404)

- a) The face shield shall provide protection against acid/alkali/ Hazardous biological substances burn.
- b) The shield shall be made of a transparent material and which material shall be made of Polycarbonate GR 1 impact.
- c) For eye protection against high impact and flying particles.
- d) Dimensions: WD 310 X LG 205 X THK 1 MM.

4.5.9 Face Protection – LV Switching

The face shield shall provide protection against electrical burns and flashes as applicable for Arc Flash Protection as per Arc Flash category requirements.

- a) The shield shall be made of a transparent material which shall be made of Polycarbonate.
- b) The face shield shall have anti-fog coating.
- c) The face shield shall have a protection bag.
- d) The face shield shall fit the existing hard hats and shall comply with Category 1 of NFPA 70E-2000 and minimum ATPV performance value of 5 Cal/cm².

4.5.10 Face Protection for Cutting and Grinding

- a) The face shield shall provide protection against cutting and grinding material.
- b) The shield shall be made of a transparent material and which material shall be made of Polycarbonate GR 1 impact.
- c) For eye protection against high impact and flying particles.
- d) Dimensions: WD 310 X LG 205 X THK 1 MM.

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4.5.11 Welding Helmet Hard Hat Assembled

Heat resistant thermoplastic shell; material black nylon; visor holder material AS/NZS 1337:1992 medium rating (1); polycarbonate cover lens material AS/NSZ 1338:1992; chipping lens material polycarbonate – medium impact (1); filter lens to have been tested/certified to AS/NZS 1338:1992; Impact protection on the complete assembly to AS/NZS 1337.1:2010 and TA500 series safety helmet.

4.5.12 Welding Helmet Replacement Lenses

- a) Welding Helmet Replacement Lenses AS/NZS 1337.1:2010, 50mm x 108mm.
- b) Polycarbonate clear chipping lens replacement high impact (V).

4.5.13 Welding Helmet Filter Arc Welding Shades

- a) Welding Helmet Filter Arc Welding Shade 12; AS/NZS 1337.1:2010, 50mm x 108mm; high to extra high impact rating; ball speed 6.00mm – 120-190m/sec; 6.35mm – 110-175m/sec; impact protection situations : high grinding, metal cutting, air-arc gauging, welding; range of welding current ≤ 400 .
- b) Welding Helmet Filter Arc Welding Shade 10; AS/NZS 1337.1:2010, 50mm x 108mm; high to extra high impact rating; ball speed 6.00mm – 120-190m/sec; 6.35mm – 110-175m/sec; impact protection situations: high grinding, metal cutting, air-arc gauging, welding; range of welding current ≤ 400 .
- c) Welding Helmet Filter Arc Welding Shade 9; AS/NZS 1337.1:2010, 50mm x 108mm; high to extra high impact rating; ball speed 6.00mm – 120-190m/sec; 6.35mm – 110-175m/sec; impact protection situations: high grinding, metal cutting, air-arc gauging, welding; range of welding current ≤ 400 .
- d) Welding Helmet Filter Arc Welding Clear.
- e) Welding Helmet Filter Arc Welding Clear; 1000 hours.

4.5.14 Welding Helmet Filter Gas Welding

Welding Helmet Filter Gas Welding Shade 6; AS/NZS 1337.1:2010, 50mm x 108mm; heavy cutting, fuse welding pre-heated cast iron and heavy thickness.

4.5.15 Auto Darkening Full Welding Helmet

Auto Darkening Full Welding Helmet; robust and lightweight; CE EN 175S, EN 329, ANSI; covers MAG-MIG – covered electrodes and TIG from 5 amps applications; enlarged viewing area: 98 x 51mm; shade, delay and sensitivity manual adjustments; solar cells WITH rechargeable and interchangeable batteries CR2032; 3D head harness; lens warranty 24 months.

4.6 MINIMUM STANDARD SPECIFICATIONS FOR HEARING PROTECTION

Hearing protection used shall be in accordance with:

- a) Protector Hearing: Earplug re-usable corded woven nylon with carrying case and chain contoured 4 flange ultra-soft polymer design; universal size self-contour to fit any ear canal; non allergenic polymer material; 25 NNR ANSI and 26 SNR CE protection level 92-102 DB.
- b) Soft Ear Plug protector, hearing: type: Uni-fit disposable foam earplug; soft tapered slow expanding polyurethane foam; tapered with longer thinner tip; corded PVC cord colour orange 32 NRR ANSI 37 SNR CE protection level 96-106 DB
- c) Protector Hearing: Semi –aural headband; earplug noise reduction rate 23 decibels; comply to ANSI s.3.19-1974; clamping force 2.0 Newton.
- d) Protector Hearing: Earmuff high performance smart fold out design dielectric construction; multi position use without support; self-aligning suspension; soft pliable super seal ear cushions for long lasting and resistant against body oil and sweat colour black/red comply to CE SNR 30 NRR 28.

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4.7 MINIMUM STANDARD SPECIFICATIONS FOR BOILER SUITS (ONE PIECE (Figure 2 on diagram: drg.10332 SANS 434) and TWO PIECE (Figure 4 on diagram: drg.15289da on SANS 434) WORK WEAR SUITS)

- a) Boiler suits or two-piece work wear suits used shall be in accordance with SANS 434.
- b) The material shall be pre-shrunk 100% woven cotton fabric in accordance with SANS 1387-4, Material Type of D59, flame retardant finish that complies with SANS 1423-1.
- c) Alkali & Acids material shall be pre-shrunk 100% woven cotton fabric in accordance with SANS 1387-4, Material Type D59 acid resistant finish.
- d) The colours shall be Navy Blue. Pantone 19_3920 and for Alkali & Acid shall be Bottle Green Pantone 19_6110TC.
- e) The zip fastener shall comply with SANS 1822 style C and be of a non-conductive material. Must be intact front and back of garments.
- f) The colour of the stringers of a slide fastener shall be an acceptable match to that of the fabric with which the slide fastener is used.
- g) The stitching shall comply with SANS 10101.
- h) The thread used shall comply with SANS 1362.
- i) Garments manufactured as per SANS 434 must bear the SABS mark of approval.
- j) The Eskom logo shall appear on the left-hand top pocket in white and shall be in accordance with Eskom's Corporate Identity.
- k) The Zero Harm identification shall appear on the right side sleeve of the top and shall be in accordance with Eskom's Corporate Identity.
- l) All Personal Protective Clothing to be fitted with flame retro reflective material strips on both sleeves circumference on the inner upper arm, reflective strips on both legs above the knees.

4.7.1 MINIMUM STANDARD SPECIFICATIONS FOR BOILER SUITS (ONE PIECE)

One Piece Boiler suits shall be in accordance with SANS 434.

- a) The fronts shall be shirt-style open fronts with a collar.
- b) The top section, if not cut in one with the trouser section, shall be joined by means of a seam at waist level.
- c) The back be cut in one piece and shall be joined to the trouser section by means of a seam at waist level.
- d) The waistline shall require elasticized from side seam to side seam.
- e) The collar shape shall be such as to be acceptable, the width at the centre back shall be at least 80 mm and the steps shall be of width at least 35 mm.
- f) Set-in sleeves shall be of one-piece construction and be fitted with a cuff at the bottom end.
- g) Cuffs plain with a double folded turned-in hem of at least 15 mm.
- h) The front fastening at bottom of the opening shall be securely bar-tacked.
- i) All raw edges shall be turned in and stitched. Fly front shall fasten with a slide fastener as per SANS 1822 Figure 4 two way fastener type A.
- j) The slide fastener shall be secured with two rows of stitching on each stringer.
- k) The front edges shall overlap at least 35 mm and the facing shall be grown on.
- l) The finished width and depth of a pocket shall be measured from edge to edge on the outside of the pocket with pencil pocket. Pocket mouths shall be finished with a hem that is deep enough to accommodate the attachment of a fastening, and shall be adequately secured.
- m) Breast hip pockets: shall be patch pockets, with rounded corners.

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- n) The side and bottom edges of a pocket shall be turned in at least 10 mm and stitched down with two rows of stitching of at least 2 mm and a maximum 10 mm respectively.
- o) The mouth of the pocket shall be hemmed and each end of the pocket mouth and shall be securely bar-tacked.
- p) The breast pocket shall be positioned above the SCYE level in accordance with acceptable patternmaking practice.
- q) The hip pocket shall be positioned appropriately from the side seam in accordance with acceptable patternmaking practice and at least 60 mm from the waist seam.
- r) Side pockets shall have a slanted mouth opening of minimum finished length 180 mm and shall have an inside patch pocket of outer material.
- s) Pencil pocket shall form part of the breast pocket and of width at least 40 mm and the full depth of the breast pocket, and shall be positioned at the centre front end of breast pocket.
- t) The pencil pocket shall be formed by a row of vertical stitching from the front edge.
- u) Pocket flaps shall be mitred.
- v) Flaps shall be lined with outer material and shall fasten in the centre with a button and buttonhole.
- w) All flaps shall be of depth at least 50 mm, and a mitred flap shall taper to at least 30 mm at the ends.
- x) A flap shall be of such width as to overlap the pocket at each side and shall be positioned at least 10 mm above the pocket mouth and securely tacked at each end.
- y) Button holes shall be large enough to neatly accommodate the buttons and shall be as follows: If four-hole plastics buttons are used, a shirt type buttonhole may be used.
- z) The bottoms of the legs shall have a plain double folded hem of at least 15 mm.

4.7.2 Minimum Standard Specifications for Pants

- a) Long pants shall be made of pre-shrunk 100% soft woven cotton fabric in accordance with SANS 1387-4, Material Type D 59- flame retardant SANS 1423-1.
- b) Long pants shall comply with the size specification in SANS 434 (refer to the trousers for the two piece Personal Protective Clothing).
- c) The pants shall be a standard five pocket style which **shall exclude the ruler/carpenters** pocket.
- d) The pants shall have a waistband which shall be elasticated ruched at the back with a zip front and one (1) button on the front of the waistband and a plain bottom.
- e) The waistband shall have the number of belt loops as prescribed in SANS 434.
- f) The pants colours shall be Navy Blue. Pantone 19_3920.
- g) The logo shall be applied in accordance with Eskom's Corporate Identity and shall be embroidered on the right back pocket.
- h) The stitching shall comply with SANS 10101.
- i) The zip fastener shall comply with SANS 1822 and shall be made of a non-conductive material.
- j) The thread used shall comply with SANS 1362.
- k) The Zero Harm identification shall appear on the left back pocket of the pants and shall be in accordance with Eskom's Corporate Identity.
- l) All pants to be fitted with reflective strips on both legs above the knees.

4.7.3 Minimum Standard Specifications for Clean Condition Pants

- a) The specification requirements for sizes under section 2.6 (overall-boiler suits or 2 piece work wear suits) shall apply.
- b) Material type D59 pre-shrunk 100% soft woven cotton fabric in accordance with SANS 1387-4, flame retardant.

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- c) The trouser shall have no pockets.
- d) The trouser shall have no buttons.
- e) The pants shall have a waistband which shall be elasticated ruched at the back with draw cord 10mm cotton belt string for fastening and without zip on the front no metal attachments.
- f) The colour shall be white.
- g) The Eskom logo shall appear on the right back in navy blue and shall be in accordance with Eskom's Corporate Identity.
- h) The Zero Harm identification shall appear on the left back side and shall be in accordance with Eskom's Corporate Identity.
- i) All personal protective clothing to be fitted with reflective strips on both legs circumference on the inner upper leg.
- j) SANS 10101 for stitching.
- k) SANS 1362 for threads.
- l) Garment to be individually packed in sealed plastic bags.

4.7.4 Minimum Standard Specifications for Jackets

- a) The jacket shall have a collar.
- b) The front shall be an open type with fastenings.
- c) The jacket bottom shall have a plain hem, without side vents.
- d) Pockets shall be as required (see Annex A) and without flaps. For bottom pockets.
- e) Sleeves shall be one-piece long and set-in.
- f) Front edges shall have grown-on facings of width at least 45 mm and the inside edges neatly finished.
- g) Each front panel shall not have a yoke.
- h) The fronts shall fasten with a slide fastener that extends to at least 90 mm above the bottom hem.
- i) A front with butted edges shall be such that the slide fastener is concealed and stitched down.
- j) Slide fasteners shall be secured to the fronts with two rows of stitching along each stringer.
- k) The back shall be plain (no centre back seam).
- l) Sleeves shall be of the one-piece.
- m) The sleeve ends shall have a plain cuff of width at least 15 mm.
- n) Pockets shall be patch pockets of outer material and shall have round corners;
- o) Pocket mouth hems shall be of finished Width 10 mm or 20 mm (see 4.5.14).
- p) Breast and side pockets shall be of finished measurement as given in Table 6.
- q) The breast pocket shall be positioned above the SCYE level in accordance with acceptable patternmaking and garment construction practice.
- r) The pencil pocket shall form part of the breast pocket and of width (mouth opening) at least 40 mm and the full depth of the breast pocket, and shall be positioned at the centre front end of breast pocket.
- s) The pencil pocket shall be formed by a row of vertical stitching from the front edge.
- t) Breast pocket flap shall be mitred, lined with outer material and fasten in the centre with a button and buttonhole.
- u) A flap shall be of depth at least 50 mm, at the mitred point and taper to at least 30 mm at the ends.
- v) A flap shall be of such length as to overlap the pocket width, shall be positioned at least 10 mm above the pocket mouth and shall be securely tacked at each end; the bottom of a jacket shall be finished with a plain hem.

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4.7.5 Minimum Standard Specifications for Clean Condition Jacket

- a) The jacket shall have a collar.
- b) The front shall be closed one panel with a V-neck collar.
- c) Only material type D59 Pre-Shrunk 100% soft woven cotton fabric in accordance with SANS 1387-4, Flame Retardant.
- d) The jacket shall have no pockets.
- e) No buttons on the garment.
- f) The colour shall be white.
- g) The Eskom logo shall appear on the left-hand top chest in navy blue and shall be in accordance with Eskom's Corporate Identity.
- h) The Zero Harm identification shall appear on the right side sleeve and shall be in accordance with Eskom's Corporate Identity.
- i) All personal protective clothing tops to be fitted with reflective strips on both sleeves circumference on the inner upper arm.
- j) SANS 10101 for stitching.
- k) SANS 1362 for threads.
- l) Garment to be individually packed in sealed plastic bags.

4.7.6 Minimum Standard Specifications for Dust Coat

- a) The dust coat length shall be $\frac{3}{4}$.
- b) The dust coat shall have pockets, front buttons, two front pockets, slit at the back.
- c) Buttons acceptable four-hole, dyed plastics buttons that comply with the requirements of SANS 1457.
- d) Coats shall fasten with button and buttonhole and shall be equidistantly spaced.
- e) Buttons shall be secured to positions corresponding to the buttonholes.
- f) The pencil pocket shall form part of the breast pocket and of width (mouth opening) at least 40 mm and the full depth of the breast pocket, and shall be positioned at the centre front end of breast pocket.
- h) The pencil pocket shall be formed by a row of vertical stitching from the front edge.
- i) The back shall have a seam down the centre with a vent in the lower part of the seam.
- j) The vent shall have an overlap of 40 mm and shall be securely tacked and bar-tacked at the top.
- k) A hanger loop of outer double folded material of finished length at least 70 mm and of finished width at least 10 mm, shall be securely sewn in with the collar at the back neck on the inside.
- l) The bottom of the coats and the lower edge of plain sleeve cuffs shall have hems of finished width at least 15 mm.
- m) Pocket mouths shall have hems of finished width at least 20 mm.
- n) Coat to be fitted with reflective strips on both sleeves circumference on the inner upper arm and Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity.

4.8 MINIMUM STANDARD SPECIFICATIONS FOR SHIRTS

- a) All shirts must be of T006 satin weave 100% cotton fabric as per Annex C and treated with a flame retardant finish that complies with SANS 1432-1.
- b) The shirts shall comply only with the requirements and sizes referred to Annex A.
- c) Button front with yoke and two breast pockets and flaps to button closure.
- d) The pockets shall be 16 cm deep and 14 cm wide.

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- e) The pockets and flaps shall have round edges.
- f) The flaps on the pockets shall have a pen division on the left side.
- g) The front pocket shall be fastened by means of non-conductive buttons.
- h) The collar shall be a standard shirt collar.
- i) The back of the shirt shall have an inverted pleat with hanger loop and yoke.
- j) Long-sleeved shirts shall have a cuff- 65 mm wide set in long sleeve with two knife pleats separate the cuff with button closure of non-conductive buttons. Sleeve opening bound with binding.
- k) The shirt shall be corporate colour (Grey). (CKS 129-188c).
- l) The logo shall be embroidered in accordance with Eskom's Corporate Identity.
- m) The front buttons shall be sewn onto a strengthened front and shall be non-conductive.
- n) The stitching shall comply with SANS 10101. Seams shoulder, sleeve and back yoke posted.
- o) Side seam and under arm safety stitch. Hems finished 10mm.
- p) The thread used shall comply with SANS 1362.
- q) The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity.

4.9 MINIMUM STANDARD SPECIFICATIONS FOR LADIES SHIRTS AND PANTS

4.9.1 Ladies Shirts

- a) All shirts shall be made of T006 satin weave 100% cotton fabric as per Annex C and treated with a flame retardant finish that complies with SANS 1423-1.
- b) The shirt sizes shall comply to Annex A
- c) The front of the long sleeved shirts shall be button down plain collar with bust and waist darts.
- d) Two Breast pockets shall be 14cm deep and 14.5 cm wide.
- e) The pockets and flaps shall have cut – edges.
- f) The flaps on the pockets shall have a pen division.
- g) The pocket corners shall be back tacked.
- h) The pocket shall be fastened by means of non-conductive buttons.
- i) The collar shall be a standard shirt collar.
- j) Long-sleeved shirts shall have a cuff - 65 mm wide.
- k) The shirt shall be corporate colour (Grey). (CKS 129 -188c).
- l) The Eskom logo shall be embroidered in accordance with Eskom's Corporate Identity.
- m) The front buttons shall be sewn onto a strengthened front and the buttons shall be non-conductive.
- n) The buttonholes shall be 1.2 cm shirt type buttonholes.
- o) The hem shall be plain finished and shall be 1.5 cm in width.
- p) The stitching shall comply with SANS 10101.
- q) The thread used shall comply with SANS 1362.
- r) The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity.

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4.9.2 Ladies Pants

- a) Long pants shall be made of pre-shrunk 100% soft woven cotton fabric in accordance with SANS 1387-4, Material Type D59, flame retardant SANS 1423-1.
- b) The size shall comply with the size specification in Annex A.
- c) Long pants shall have reverse pleats.
- d) The pants shall have a waistband which shall be elasticated ruched at the back with a zip front and one (1) button on the front of the waistband and a plain bottom.
- e) The waistband shall be 38-40 mm in width.
- f) The pants shall have 2 side pockets.
- g) The pants shall be Eskom Navy Blue Pantone 19_3920.
- h) The Eskom logo shall be applied in accordance with Eskom's Corporate Identity and shall be embroidered on the right back pocket of the pants.
- i) The stitching shall comply with SANS 10101.
- j) The zip fastener shall comply with SANS 1822 style A figure 3 and be of a non-conductive material.
- k) The thread used shall comply with SANS 1362.
- l) The Zero Harm identification shall appear on the left back pocket of the pants and shall be in accordance with Eskom's Corporate Identity.
- j) Pants to be fitted with reflective strips on both legs above the knees.

4.10 MINIMUM STANDARD SPECIFICATIONS THERMAL JACKETS

- a) Jackets shall be insulated with pre-shrunk hollow cotton fibre 135 msg which is made of non-flammable material, the inner material shall be a tartan lining, 100% cotton of a darkish colour, with the outer covering be pre-shrunk 100% soft woven fabric in accordance with SANS 1387-4, Material Type D59, flame retardant. (SANS 1423-1).
- b) The size shall be in accordance with Annex A.
- c) The jackets shall have one chest pocket and four side pockets. The side pocket shall be the bellows type with a side entry into another separate pocket and shall be 22 cm deep and 21 cm wide.
- d) The pockets shall have flaps with cut-off edges that can be fastened by means of non-conductive press studs.
- e) Chest pockets shall be the bellows type – 15 cm deep and 14 cm wide.
- f) The jackets shall reach below the buttocks.
- g) The jackets shall have non-conductive press-studs down the front on a double panel strip as well as a non-conductive zip complying with SANS 1822 and be intact front and back.
- h) The sleeve cuffs shall have two non-conductive press-studs at the end of the sleeve so that the size can be adjusted.
- i) The Eskom logo shall be embroidered in accordance with Eskom's Corporate Identity.
- j) The stitching shall comply with SANS 10101.
- k) The thread used shall comply with SANS 1362.
- l) The jacket shall comply with the Eskom identity requirements and shall be Eskom Navy blue (Pantone 19_3920 as per corporate colour code).
- m) The thermal jacket to be fitted with reflective strips on both sleeves circumference on the inner upper arms.
- n) The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity.

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4.11 MINIMUM STANDARD SPECIFICATIONS FOR RAIN PROTECTION (RAIN SUITS)

- a) The fabric for the jacket and trousers shall be a minimum of 180 grams per square meter with the face side 100% polyester, plain weave with 170 threads per square inch and coated with a water resistant coating.
The "under" side to be laminated with PVC coating. Seams strength to be 50kPa, (converts to 50kNm²). The lining to be 80% polyester and 20% cotton. All sizing benchmark to SANS 434 see size chart Annexure E for rain wear and chemical chart specification.
- b) The rain jacket shall have a nylon spiral zip and a closed fly front secured by non-conductive press-studs, and shall comply with SANS 1822 type 5(auto lock alloy sliders).
- c) The hood shall be attached to the rain jacket.
- d) The rain jacket shall cover the buttocks.
- e) The sleeves shall have a false elastic sleeve at the end (made of a softer material) to prevent rain entering the sleeve.
- f) The pants shall have two side slits and elasticised waist.
- g) Rain suits shall be Navy blue in colour.
- h) The rain suite shall be fitted with reflective strips on both sleeves circumference on the inner upper arm, reflective strips on both legs above the knees
- i) The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity.
- j) The Eskom logo shall be silk-screened in accordance with Eskom's Corporate Identity, on the front and on the back.
- k) The size of the Eskom logo on the front shall be 65 mm high and on the back the Eskom logo shall be 150 mm high.

4.12 MINIMUM STANDARD SPECIFICATIONS FOR CHEMICAL PROTECTION (CHEMICAL RAIN SUITS)

- a) The fabric for the jacket and pants shall be a minimum of 400 grams per square meter, PVC Coated Polyester, Tear strength Welf 40N and warp 30N, Burst strength Welf 655N/50mm, warp 1232N/50mm, and coating adhesive 15N/50mm.
- b) Polyester base fabric to be 100% polyester weight 80 grams per square meter and yarn/cm 16 by 14.5.
- c) Rain suits shall be Hi Vis Yellow in colour. This is global the international colour for chemical rainwear.
- d) Hook and loop tape 20mm-white and draw cord 3mm polyester, Seams to be high frequency welded.
- e) The chemical rain jacket shall have a nylon spiral zip and a closed fly front secured by acid resistant press-studs, and shall comply with SANS 1822 type 5(auto lock alloy sliders).
- f) The hood shall be attached to the rain jacket.
- g) The chemical rain jacket shall cover the buttocks.
- h) The sleeves shall have a false elastic sleeve at the end (made of a softer material) to prevent chemicals entering the sleeve.
- i) The pants shall have no side slits and no pockets.
- j) The pants shall have an elasticised waist.
- k) The chemical rain suite shall be fitted with reflective strips on both sleeves circumference on the inner upper arm, reflective strips on both legs above the knees.
- l) The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity.
- m) The Eskom logo shall be silk-screened in accordance with Eskom's Corporate Identity, on the front.
- n) The PVC Coating formulation stipulated not to be changed by supplier.

Chemical tested to ASTM P903-96 for the BTT (break through time) see chemical chart specs annex E

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Note Annex E for rain wear sizes and chemical chart specs

4.13 MINIMUM STANDARD SPECIFICATIONS FOR FOOT PROTECTION

SAFETY BOOTS/SHOES

4.13.1 Safety Boots (Standard Size)

- a) Toe construction type: steel or carbon fibre; tread surface type sole rubber; oil, petrol, slip resistant and with penetration resistant insert.
- b) Material must be full grain upper leather.
- c) Shoes to comply with Safety Shoes Electrical Testing Specification 34-232.
- d) The boots shall be dark brown. Where it is not possible to obtain brown then black will be the only alternative and the laces shall match the relevant boot colour.
- e) Only locally produced or manufactured textiles leather and footwear material or input will be considered.
- f) Item to be marked with SABS SANS 20345:2008 mark of approval.

4.13.2 Safety Boots (Wide Size)

- a) Toe construction type: steel or carbon fibre; tread surface type sole rubber; oil, petrol, slip resistant and with penetration resistant insert.
- b) Material shall be full grain upper leather; shoes to comply with Safety Shoes Electrical Testing Specification 34-232.
- c) The boot shall be dark brown. Where it is not possible to obtain brown then black will be the only alternative and the laces shall match the relevant boot colour.
- d) Only locally produced or manufactured textiles leather and footwear from local raw material or input will be considered.
- e) Item to be marked with SABS SANS 20345:2008 mark of approval.

4.13.3 Safety Shoe (Standard Size)

- a) Toe construction type: steel or carbon fibre; tread surface type sole rubber; oil, petrol, slip resistance and with penetration resistant insert.
- b) Material shall be full grain upper leather; shoes to comply with Safety Shoes Electrical Testing Specification 34-232.
- c) The boots shall be dark brown. Where it is not possible to obtain brown then black will be the only alternative and the laces shall match the relevant boot colour.
- d) Only locally produced or manufactured textiles leather and footwear from local raw material or input will be considered.
- e) Item to be marked with SABS SANS 20345:2008 mark of approval.

4.13.4 Safety Shoe (Wide Size)

- a) Toe construction type: steel or carbon fibre; tread surface type sole rubber; oil, petrol, slip resistant and with penetration resistant insert.
- b) Material shall be full grain upper leather.
- c) Shoes to comply with Safety Shoes Electrical Testing Specification 34-232.
- d) The boots shall be dark brown. Where it is not possible to obtain brown then black will be the only alternative and the laces shall match the relevant boot colour.
- e) Only locally produced or manufactured textiles leather and footwear from local raw material or input will be considered.
- f) Item to be marked WITH SABS SANS 20345:2008 mark of approval.

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4.13.5 Clean Condition Boot

- a) Toe construction type carbon fibre.
- b) Tread surface type sole rubber, oil, petrol, slip resistant and with penetration resistant insert.
- c) Material shall be full grain upper leather.
- d) Shoes to comply with safety shoes electrical testing specification 34-232.
- e) The boots colour to be white.
- f) Type will be slip on type (No laces).
- g) Only locally produced or manufactured textiles leather and footwear from local raw material or input will be considered.
- h) Item to be marked with SABS SANS 20345:2008 Mark of Approval.

4.13.6 Shoe Protection

- a) The material shall be leather cowhide with self-grip back fastener, under strap.
- b) The dimensions shall be LG 320 X HT 250 MM.

4.13.7 Gumboots

- a) Gumboots shall be made of solid rubber and shall be black in colour with a protective toe cap.
- b) It shall be made of low abrasion material.
- c) The sole shall be acid and oil resistant; and non-slip.
- d) It shall be waterproof.
- e) Gumboots shall comply with SANS 20245.

4.13.8 Wader Suit

- a) Consist of trousers and attached boots.
- b) It must be waterproof and made of PVC material.
- c) The colour of the wader must be olive green.

4.13.9 Socks

- a) Non-conductive, anti-static and Anti-Bacterial socks shall be made from 72% Cotton, 26% Poly, 2% Silver Fibre.
- b) The socks must be available in three different sizes, namely: small/medium, large/x-large and xx-large/xxx-large.

4.14 MINIMUM STANDARD SPECIFICATIONS FOR HAND AND ARM PROTECTION

- a) Where tasks require hand and arm protection, the appropriate protection must be supplied.
- b) All hand protection used shall be subject to a risk assessment (fit for purpose). Colours may vary according to availability of stock.
- c) When purchasing the protective equipment, every effort must be made to purchase equipment that bears the British Safety Standard Mark (BS) or the European Norm Standard (EN).

4.14.1 Welding Gloves

- a) PIMGLOVE Lined welders heat resistant glove 30cm and must be Red all cow leather gloves with double apron, cotton and foam lining and Kevlar yam. Glove must withstand heat up to 500 degrees Celsius.
- b) General Purpose Welding Gloves Lined green welders glove 20cm cuff .All cow leather glove with full cotton lining that can withstand heat between 140-175 degrees Celsius.

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4.14.2 General Purpose Gloves

- (a) General Purpose Cut Resistant Gloves (Maintenance) Lightweight, cut-resistant, micro-foam nitrile coated glove. EN388 level 3 cut resistance. Reinforcement between thumb and forefinger.
- (b) General Purpose Gloves: colour: dark grey; specification: EN 388-4131; coating: fully; coating colour: black; palm: 1 mm; applications: maintenance; logistics and warehousing; using tools and instruments.
- (c) Tig welding glove, Pigskin; garment closing method: elasticated; colour: beige; cuff type: plain; type: Tig; mechanical abrasion EN level 1; cut EN level 1; tear EN level 2; puncture EN level 1; heat suitable for minimal application; cold suitable for minimal application; to be used as a general handling glove for rigging, Tig welding and electrical .

4.14.3 Chemical Gloves

Chemical protective Glove: type: acid resistant; material: butyl plus R 0.3; colour: black; cuff type: rolled end; cuff length: 150 mm; specification: EN 388 / EN 374: 2003.

4.15 MINIMUM STANDARD SPECIFICATIONS FOR REFLECTIVE VESTS AND BIBS

- a) Shall comply with SANS 50471: High-visibility warning clothing for professional use.
- b) The vests/bibs design shall comply with Figure A3 on Annexure A of SANS 50471 except for employees at work A.4 design.
- c) The reflective tape (retro reflective material) shall comply with SANS 50471 and shall be a minimum of 50mm in width.
- d) Colour requirements for background and combined performance material shall comply with Table 2 in SANS 50471.
- e) The front shall be closed by a zip fastener which shall comply with SANS 1822 and be of a non-conductive material.
- f) The sizes in accordance with the requirements stipulated in section 4.3 of EN 340.
- g) The Eskom logo shall be silk-screened in accordance with Eskom's Corporate Identity, on the front left side above the identity pocket.
- h) High visibility tape as per figure A.3 and A.4 where applicable as per the below mentioned table.

Category	Colour of vest	Colour code	Design
Evacuation Co-ordinator	Cloud White with silver retro reflective material	Cloud White G80 (NCS 0704-G38Y)	A.3
First Aid Co-ordinator	Emerald Green with silver retro reflective material	Emerald Green E14 (NCS 3745-B99G)	A.3
Fire Protection Co-ordinator (Fire Warden)	Fluorescent red with silver retro reflective material	Signal Red A11 (NCS 1678-Y86R)	A.3
Employee at work	Fluorescent orange-red silver retro reflective material	Light Orange B26 (NCS 1673-Y48R)	A.4
Transport Co-ordinator	Ice Blue with silver retro reflective material	Ice Blue F76 (NCS 0809-B66G)	A.3
Management (managers, auditors, observers and security).	Fluorescent yellow with silver retro reflective material	Golden Yellow B49 (NCS 1178-Y14R)	A.3

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4.16 MINIMUM STANDARD SPECIFICATIONS FOR COLD WEATHER PROTECTION**Freezer Wear**

- a) The fabric specification for freezer wear shall be: Outer fabric: 100% cotton soft woven fabric in accordance with SANS 1387-4, Material Type D59, flame retardant (SANS 1423-1), Insulating Layer: 135gsm polyester.
- b) Lining: 100% cotton, uncoloured. (Not dyed).
- c) The jackets shall have non-conductive press-studs down the front on a double panel strip as well as a non-conductive zip complying with SANS 1822. To be intact front and back.
- d) Freezer suits outer material shall be Hi Vis Orange colour.
- e) The Zero Harm identification shall be embroidered on the right upper arm and the Eskom logo shall be embroidered in accordance with Eskom's Corporate Identity on the front top pocket; identification: indelible marks, trademark and size on all items.

Special protection includes but not limited to:

- a) Cotton thermal underwear
- b) Woollen gloves
- c) Woollen socks
- d) Balaclavas
- e) Freezer suits
- f) Gum boot inserts
- g) Body protection – Battery acid/alkali protection

4.17 MINIMUM STANDARD SPECIFICATIONS FOR APRONS**4.17.1 Chemical Apron**

- a) The apron shall be rubber-coated or heavy duty plastic polyester viscose material.
- b) The apron shall be full length and hang to the knees or below the knees.

4.17.2 Welding Apron

- a) Apron, welder: garment size: wd 24 x lg 42 in; material: leather cowhide; with adjustable neck strap.
- b) Must provide complete front body protection.

4.18 MINIMUM STANDARD SPECIFICATIONS FOR SKIN PROTECTION**4.18.1 Sunscreen products – protective creams**

Sunscreen products shall be in accordance with SANS 1557. This code specifies requirements for sunscreen products suitable for tropical use for the protection of human skin against the adverse effects of solar UV rays;

Product requirements

- a) Water resistant with moistening effect
- b) The product shall be free from palpable particles.
- c) The product shall not contain any substances prohibited in terms of the current Foodstuff, Cosmetics and Disinfectant Act.
- d) The maximum concentration of the UV filters in the sunscreen product shall not exceed that approved by the Department of Health.
- e) The sunblock shall have a minimum SPF of 40+ rubbed on types; supplied in 150ml tubes.

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4.18.2 Insect repellent;

- a) Form gel stick; odour perfumed; colour opaque, translucent light green; PH 8.9 to 9.0; solubility miscible in water ; storage below 25 Deg °c; and away from sunlight, conforms to Medicines Control Counsel (MCC) of South Africa – Act 101 of 1965 Registration no: l686.(mosquito insects).
- b) Bayticol Aerosol Spray; Insecticide fabric spray that kills ticks and prevent tick bites on humans; composition Flumenthrin (pyrethroid) 2g/kg; Net Contents 240ml; Used as a fabric spray to prevent tick bites; flammable; Supply with MSDS.

4.18.3 Barrier Cream

The specification for barrier creams shall be in accordance with SANS 433. This code covers the requirements for barrier creams suitable for protection of the skin against acids, alkalis, oils, and solvents. It also lays down requirements for homogeneity, wash ability, odour, stability, application, pH value, and penetrability to challenging solutions and occurrence of fungal and bacterial growth.

Chemical and physical requirements:

- a) All types of cream shall be homogeneous and soft in texture, free from grit and substances known to be harmful to the skin during long exposure. All types of creams shall be readily removed from the skin with detergent and water.
- b) Barrier creams complying with the requirements of this specification shall be free from objectionable odours during and after application to the skin.
- c) The barrier cream shall show no separation of liquid from the cream/paste at 15°C and 30°C after standing for 48 hrs.
- d) When applied to the skin the barrier cream shall form a flexible adhering film at temperatures of 15°C to 30°C.
- e) The pH value of a water extract of the barrier cream shall not be less than 5,0 and not more than 8,5.
- f) The barrier cream shall leave no stains on a cotton duct.
- g) When tested in accordance with the requirements of section 6 of SANS 433, the barrier cream shall show no fungal or bacterial growth.

4.18.3.1 Skin Protect Cream

White smooth, non-greasy oil-in-water emulsion with a light fragrance. High quality cosmetic grade, oil-in-water silicone free emulsion including Collagen Allantoin & MF moisturising agents as skin care agents; Physical State Cream; Miscibility in water Complete; All the individual organic components of the product must be biodegradable and anticipated that when used at the recommended dilution the product must not be harmful to the environment; Packaging: 500 ml Tubs with dispensing pump.

4.18.3.2 Solvgard Barrier Cream against Solvents

Solvgard White oil-in-water emulsion, odourless; Containing waxes, oils, zinc oxide and skin care agents, silicone free; Skin care agents include Allantoin & Hydro MF moisturising agent; Highly effective barrier coating against petrol, diesel, thinners, paraffin turps, dust and powders; Miscibility in water Complete; Biodegradable: All the individual organic components of the product must be biodegradable and anticipated that when used at the recommended dilution the product must not be harmful to the environment; Packaging: 500 ml Tubs with dispensing pump.

4.18.3.3 Skin Barrier Cream against Acids and Alkalis

Skin cream with protective blocking agent; Whitish water-in-oil emulsion slightly greasy feel, odourless. Must Contains a high proportion cosmetic oil, titanium dioxide, talcum, Vaseline and skin care agents, silicone free. Skin care agents include; Allantoin & Hydro MF moisturising agent. Highly effective barrier coating against all water borne substances (e.g. acids, alkalis) + dust and powders.

Miscibility in water: Not miscible in water; Biodegradable: All the individual organic components of the product must be biodegradable and anticipated that when used at the recommended dilution the product must not be harmful to the environment; Packaged 500 ml Tubs without dispensing pump.

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4.18.3.4 Foot Care Cream

Cosmetic grade ingredients blended to refresh tired feet, reduce excessive perspiration, and prevent unpleasant foot odours. Reduce common irritation of athlete's foot and similar foot afflictions. Inclusion of witch hazel for soothing action. Chlorhexidine component to offers a broad antibacterial spectrum. Composition oil-in-water emulsion, off white in colour, silicone free, mixture of oils and waxes, witch hazel Chlorhexidine and camphor; All the individual organic components of the product must be biodegradable and anticipated that when used at the recommended dilution the product must not be harmful to the environment; Storage 1 year stored at room temperature. Keep lid closed. Packaging 500 ml tubs with dispensing pump.

4.19 MINIMUM STANDARD SPECIFICATIONS FOR RESPIRATORS

Respirators to be worn where required/specified or where a risk assessment indicate wearing of respirator is required.

The specifications for respiratory equipment shall be in terms of the following:

4.19.1 Dust Mask FFP2 with Valve

- a) Disposable particulate mask for protection against solid and non-volatile liquid particles only; EN 149:2001 +A1 2009 FFP2 NR D CE 0086.
- b) Protection factor 10 X WEL material that has low breathing resistance with effective protection against: sub-micron particles, fine dusts, non-volatile liquid mists and biological agents.
- c) Valve provides effective removal of heat and moisture for a cooler and more comfortable wear whilst also minimising the risk of misting eyewear.

4.19.2 Dust Mask FFP2 without Valve

- a) Disposable particulate mask for protection against solid and non-volatile liquid particles only; EN 149:2001 +A1 2009 FFP2 NR D CE 0086.
- b) Protection factor 10 X WEL material that has low breathing resistance with effective protection against: sub-micron particles, fine dusts, non-volatile liquid mists and biological agents.

4.19. Dust Mask FFP3 with Valve

- a) Disposable particulate mask for protection against solid and non-volatile liquid particles only; EN 149:2001 +A1 2009 FFP2 NR D CE 0086.
- b) Protection factor 20 X WEL material that has low breathing resistance with effective protection against: sub-micron particles, fine dusts, non-volatile liquid mists and biological agents.
- c) Valve provides effective removal of heat and moisture for a cooler and more comfortable wear whilst also minimising the risk of misting eyewear

4.19.3 Full Face Mask Reusable Air-Purifying Respirator

- a) Tight Fitting; 5 Point; EN 136 CL 2. CE 0158. Part Number D2055790. FP 42, OF CLASSES 1, 2, OR 3 (MASK).
- b) Highest standard of face seal to protects the eyes.
- c) These respirators for use with chemical cartridges in emergencies

4.19.4 Canister Filter Gas and Combination Filter

- a) Canister filter gas and combination filter for solids and vapours according to EN 14387 A2 B2E2 K1 HG-P3 R D PART NUMBER 1070705 D 1070705 MEE CE 0121 ES 5/16 MAX 50 H.
- b) Protective respirator filter to be suitable for use in full face mask filter housing fitted with round thread in accordance with EN148-1 (RD 40 X 1/7").

4.19.5 Canister Filter Organic Gasses and Vapour

- a) Canister filter organic gasses and vapour; combination filter EN 141 A2 P3 PART NUMBER HFP/C3/3.

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- b) Filter to be suitable for use in full face mask filter housing fitted with round thread in accordance with EN148-1 (RD 40 X 1/7").

4.20 MINIMUM STANDARD SPECIFICATIONS FOR PROTECTIVE CLOTHING FOR USERS OF HAND-HELD CHAIN SAWS

- a) Protective clothing for users of hand-held chain saws shall be in accordance with SANS 50381-5. This code defines design and specifies the requirements for leg protectors that offer protection against cutting by a hand-held chain saw.
- b) SANS 50381-2 specifies the test methods to be used to assess the resistance of leg protectors to cutting by hand-held chain saws and other properties.

Requirements in terms of SANS 50381-5

- a) SANS 50381-5 defines three designs for leg protectors and all three designs have different specified protective areas, as indicated in sections 4.2, 4.3 and 4.4 of SANS 50381-5.
- b) The protective clothing shall be as lightweight as possible.
- c) Between the crotch and the fly a break of 30 mm is allowed, but it is recommended that this break is kept as small as possible.
- d) The design shall be without appendages, which could become entangled in the machinery.
- e) Braces shall have a minimum width of 30 mm.
- f) The construction around the knee shall facilitate bending of the leg.
- g) For zippers or buttons, an opening break of 30 mm shall be allowed.
- h) The Zero Harm identification shall appear on the right side sleeve of the top and shall be in accordance with Eskom's Corporate Identity.
- g) All Personal Protective Clothing tops and rain coats to be fitted with reflective strips on both sleeves circumference on the inner upper arm, reflective strips on both legs above the knees.

Note: With the aid of risk assessment techniques Line Management supported by Safety Risk Management shall determine the most effective design, per person required for this category of tasks.

Note: When purchasing the above protective equipment and SANS specification are not available every effort must be made to purchase equipment that bears the British Safety Standard Mark (BS) or the European Norm Standard (EN).

Note: All hand protection used shall be subject to a risk assessment (fit for purpose). Colours may vary according to availability of stock.

4.21 MINIMUM STANDARD SPECIFICATIONS FOR TOG BAGS

Tog bags shall be made from hard-wearing PVC canvas material and shall have a drawstring closure.

- a) A label holder with a clear plastic window shall be stitched on one side of the tog bag.
- b) The colour of the tog bag shall be Eskom Navy blue Pantone 19_3920.
- c) The Eskom logo shall appear in white silkscreen printing in accordance with Eskom's Corporate Identity.
- d) The height of the bag shall be a minimum of 60 cm with a diameter of 30 cm.

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Annex A
Personal Protective Clothing – Standard Sizes

MENS SHIRT, TROUSERS SIZE CHART												
Men's Shirts	S			M				L			XL	XXL
	34	36	37	38	39	40	41	42	43	44	46	47
		14		15			16		17		18	48 49
Men's Trousers Waist		1	2	3	4	5	6	7	8	9	10	
		66	71	76	81	87	92	97	102	107	112	
		26		30	32	34	36	36	40	42	44	

LADIES PANTS SIZE CHART															
Sizes	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137
Waist Extended	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137
Seat*	92	97	102	107	112	117	122	127	132	137	142	147	152	157	162
Out-Leg	106	106	107	108	108	109	109	110	111	111	112	113	113	114	114
In-Leg	79	79	80	80	80	81	81	81	82	82	83	83	83	83	83

*MEASURED 20cm DOWN FROM WAIST BAND.

ALL MEASUREMENTS SUBJECT TO A TOLERANCE OF $\pm 4.0\%$

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Annex A
(Informative)

LADIES LONG SLEEVED SHIRTS SIZE CHART															
Sizes	77	82	87	92	97	102	107	112	117	122	127	132	137	142	147
Bust @ Base Of Armhole	92	97	102	107	112	117	122	127	132	137	142	147	152	157	162
Back Length	64	65	65	66	66	67	67	68	68	69	69	70	70	71	71
Back Width	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
Sleeve Length*	41	41	41	42	42	42	43	43	43	44	44	44	45	45	45
Hip	102	107	112	117	122	127	132	137	142	147	152	157	162	167	172
Cuff	21	21	21	22	22	22	23	23	23	24	24	24	25	25	25

*UNDER ARM MEASUREMENT

ALL MEASUREMENTS SUBJECT TO A TOLERANCE OF $\pm 4.0\%$

MEN'S LONG SLEEVE SHIRTS						
Collar Size	Size	Chest	Back Length	Back Width	Long Sleeve U/Arm	Cuff Button
34/35	XS	112	79.5	43	50.5	20
36/37	S	116	80	45	51	21
38/39	M	120	80.5	47	51.5	22
40/41	L	124	81	49	52	23
42/43	XL	128	81.5	51	52.5	24
44/45	2XL	132	82	53	53	25
46/47	3-XL	136	82.5	55	53.5	26
48/49	4-XL	140	83	57	54	27
50/51	5-XL	144	83.5	59	54.5	28
52/53	6-XL	148	84	61	55	29
54/55	7-XL	152	84.5	63	55.5	30
56/57	8-XL	156	85	65	56	31

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Annex A

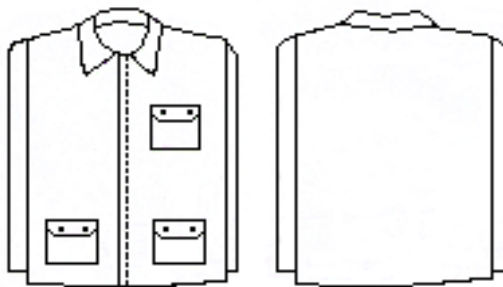
(Informative)

THERMAL JACKETS				
Sizes	Chest at base of armhole	Back Length	Back Width	Sleeve length *
Small	135	76	56	49.5
Medium	140	77	56	50
Large	145	80	58	50.5
X-LG	150	81	60	51
2X-LG	155	82	62	51.5
3X-LG	160	83	64	52
4X-LG	165	84	66	52.5
5X-LG	170	85	68	53
6X-LG	175	86	70	53.5

* Measured at the underarm seam

* All measurements subject to a tolerance of 2%

* Measurements in centimetres and according to SANS standards

**Jacket Sketch**

Jackets	S	M	L	XL	2XL	3XL	4XL	5XL	6XL
	87	97	107	117	122	132	137	147	157
Soft Bush Hats	56 67/8	57 7	58 71/8	59 71/4	60 73/8	62 71/2			

Shoes gumboots and boots	Ladies		210 2	220 3	230 4	240 5	250 6	255 7	262 8	
	Men	5	247 6	255 7	262 8	270 9	277 10	285 11	292 12	300 13
Socks	Men/ladies	S	M	L	XL	XXL	XXXL			

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Annex B - Standard nomenclature for stitches, seams and stitching.**(Informative)****B1 Stitches, seams and stitches****B1.1 General**

All sewing shall be in accordance with SANS 10101

B1.2 Stitches

- a) Main seaming and ruching. Stitch type 401.
- b) Over locking. Stitch type 402-505.
- c) Other sewing. Stitch type 301.

B1.3 Seams

Seams shall be at least 8 mm wide. They shall be as follows:

- a) Main seams. Seam type Ssa – 2, Lsc – 2 or Lsc – 3.
- b) Breast pocket flaps to blouse. Seam type Lsc – 2, Lsba – 2 or sewn in with yoke seam.
- c) Leaf edge of collar and flaps. Seam type – 4.
- d) Breast waist seam. Seam type Ssag – 3 or similar acceptable seam type.
- e) Side wing-pocket bags. Seam type Sse – 2, Bsc – 2, Bse – 4.
- f) Side patch-pocket bags. Seam type Lsd – 4.
- g) Other seams. Seam type Ssa – 1.

B1.4 Number of stitches

- a) Seaming and top stitching. 40 + 4 per 1 cm.
- b) Overclocking. 32 + 2 per 10 cm.
- c) Button holes. 12 + 1 per 1 cm.
- d) Back-tacks. 18 min per 1 cm.
- e) Buttons. 18 min per button.

B 1.5 Sewing threads

The sewing threads shall comply with the relevant requirements of SANS 1362 and shall be compatible with, and the colour shall be an acceptable match to, the material(s) with which they are used and shall be 100 % cotton.

The thread shall be as follows:

- a) Needle, bobbin and looper threads shall have a breaking strength of at least 12 N.
- b) Over locking threads shall have a breaking strength of at least 8

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Annex C

Material specification for T006 and all garment labels

C1. T006 fabric specification

FABRIC SPECIFICATIONS

BLEND	100% COTTON
WARP COUNT	30
WEFT COUNT	30
WEAVE	4/1 SATIN
<u>FINISHED DETAILS:</u>	
ENDS/CM	46
PICKS/CM	22
O/ALL WIDTH (CMS)	140 to 143
MASS (GSM)	206
<u>TENSILE STRENGTH:</u>	
WARP	900
WEFT	350
<u>STABILITY%:</u>	
WARP	3
WEFT	3
<u>COLOUR FASTNESS:</u>	
WASH	5
RUB	4 - 5
LIGHT	5
<u>PILLING:</u>	2
<u>MARTINDALE (RUBS):</u>	10000 - 12000
<u>SEAM SLIPPAGE:</u>	
WARP	117N
WEFT	211N

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Annex D

FLAME RETARDANT RETRO REFLECTIVE MATERIAL SEWING ON GAGMENTS

- a) Product; Retro-reflective material referenced WATT – FRIS91 – Silver (50mm)
- b) Product shall comply to EN 471 + A1; 2007 requirements including the following three
- c) EN469:2005, Clause 6.1, Annex B.3.2
- d) EN469:2005, Clause 6.5, Annex B.3.1
- e) BSENISO14116:2008, Limited Flame Spread
- f) Retro-reflective tape shall be fitted mid-way on both sleeves circumference of the inner leg and U/arm sleeve measurement on one and two piece work wear including rainwear long pants and jackets.

Garments labels as per SANS 1309

- a) All garments shall have a cotton or rayon label firmly sewn to the yoke at the back neck on the inside
- b) The label shall provide the following information in legible and indelible marking ink for textiles as per SANS 432
- c) Manufacturer's name or trade mark or both
- d) Name of the manufacture of the material and their location
- e) Year of manufacture
- f) VAT registration number of the manufacture
- g) Full washing instructions
- h) Material fabric type Ex (D59 Zero flame) and (T006 Zero flame)
- i) Size
- j) Customer item code / traceability number as per SANS 432 indelible marking ink for textile fabrics
- k) Country of origin

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Annex E**For rain wear sizes and chemical chart specs****Size Chart**

Jackets	Chest	Back Len.	Sleeve Len.	Cuff Circ.
Small	115	75	75	33
Medium	125	76	78	34
Large	135	77	81	35
X-Large	140	80	84	36
2X-Large	145	85	86	37
3X-Large	150	85	87	38
4X-Large	155	85	88	39

Pants	Waist	In-Leg	Outer-Leg	Hem Circ
Small	103	70	100	46
Medium	107	72	103	48
Large	111	74	106	50
X-Large	115	76	109	52
2X-Large	121	80	115	56
3X-Large	127	84	121	60
4X-Large	140	88	125	64

Overalls	Chest	Sleeve Len.	Cuff Circ.	Waist
Small	109	48	28	95
Medium	119	49	28	105
Large	129	50	29	115
X-Large	139	51	30	125
2X-Large	149	52	30	135
3X-Large	159	53	31	145
4X-Large	169	54	32	155

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Annex E

Chemical Chart Specifications

Liquid	Pressure Kpa	Time Minutes
1: Phosphoric	0	5
	20	10
	100	10
2: Hydrochloric	0	5
	20	10
	100	10
3: Hydrofluoric	0	5
	20	10
	100	10
4: Sulphuric	0	5
	20	10
	100	10
5: Phenol	0	5
	20	10
	100	10

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Annex F

SAP Numbers Ordering Details

	Item	Size	SAP Number
	Head Protection		
	Hard hat for Working from Height Including 3 point Chin Strap - Helmet, Safety adjust Chin		0552719
	Sticker safety helmet vinyl		0552721
	Strap 3 point chin black		0552722
	Visor, Sun Brim Safety Hat		0565828
	Hair Net		0566181
	Soft Hat (Bush Hat)		
	Hat, Bush Soft	Small	0222349
	Hat, Bush Soft	Medium	0222351
	Hat, Bush Soft	Large	0222352
	Hat, Bush Soft	X Large	0222353
	Eye Protection		
	Spectacle Visitors		0147555
	Spectacle Gas Welding Green		0163475
	Spectacle Goggle		0220008
	Spectacle Safety Protective Amber		0041024
	Spectacle Safety Wraparound Clear 48mm		0147556
	Spectacle Safety Indoor/Outdoor Variable		0041004
	Goggle Industrial Grey		0163471
	Cord Safety Glass Lg Adjustable Nylon		0566168
	Case, Eyewear		0566174
	Bag, Eyewear		0566179
	Face Protection		
	Face shield, Battery acid / Alkali protection		0222358
	Face shield- LV Switching		0222359
	Face Shield, Cutting And Grinding		0232870
	Face Protection Welding		
	Welding Helmet Replacement Lenses		
	Welding Helmet Filter Arc Welding Shades 12		0040997
	Welding Helmet Filter Arc Welding Shades 10		0040993
	Welding Helmet Filter Arc Welding Shades 9		0041166
	Welding Helmet Filter Arc Welding clear		0040998
	Welding Helmet Filter Arc Welding clear 1000 hours		0040992
	Welding Helmet Filter Gas Welding shade 6		0040999
	Auto Darkening Full Welding Helmet		0566237
	Hearing Protection		
	Protector, Hearing Earplug 90-102db		0041050
	Protector, Hearing Earplug 96-106db		0147538
	Protector, Hearing Headband 23db		0041063
	Protector, Hearing Earmuff Cushion		0041168

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	Item	Size	SAP Number
	Overalls		
	One Piece		
	Overall, art 1pc Blue D59	77	0222529
	Overall, art 1pc Blue D59	82	0222530
	Overall, art 1pc Blue D59	87	0222531
	Overall, art 1pc Blue D59	92	0222533
	Overall, art 1pc Blue D59	97	0222534
	Overall, art 1pc Blue D59	102	0566588
	Overall, art 1pc Blue D59	107	0566591
	Overall, art 1pc Blue D59	112	0566598
	Overall, art 1pc Blue D59	117	0566589
	Overall, art 1pc Blue D59	122	0566599
	Overall, art 1pc Blue D59	127	0566593
	Overall, art 1pc Blue D59	132	0566592
	Overall, art 1pc Blue D59	137	0566590
	Overall, art 1pc Blue D59	142	0566595
	Overall, art 1pc Blue D59	147	0566597
	Overall, art 1pc Blue D59	152	0566594
	Overall, art 1pc Blue D59	157	0566596
	One Piece Acids & Alkali		
	Overall, art 1pc Acids & Alkali D59	77	0566600
	Overall, art 1pc Acids & Alkali D59	82	0566601
	Overall, art 1pc Acids & Alkali D59	87	0566602
	Overall, art 1pc Acids & Alkali D59	92	0566603
	Overall, art 1pc Acids & Alkali D59	97	0566604
	Overall, art 1pc Acids & Alkali D59	102	0566605
	Overall, art 1pc Acids & Alkali D59	107	0566606
	Overall, art 1pc Acids & Alkali D59	112	0566607
	Overall, art 1pc Acids & Alkali D59	117	0566608
	Overall, art 1pc Acids & Alkali D59	122	0566609
	Overall, art 1pc Acids & Alkali D59	127	0566610
	Overall, art 1pc Acids & Alkali D59	132	0566611
	Overall, art 1pc Acids & Alkali D59	137	0566612
	Overall, art 1pc Acids & Alkali D59	142	0566613
	Overall, art 1pc Acids & Alkali D59	147	0566614
	Overall, art 1pc Acids & Alkali D59	152	0566615
	Overall, art 1pc Acids & Alkali D59	157	0566616
	Men's		
	Trousers, Men's Long Pants	77	0222467
	Trousers, Men's Long Pants	82	0222468
	Trousers, Men's Long Pants	87	0222469
	Trousers, Men's Long Pants	92	0222470
	Trousers, Men's Long Pants	97	0222471

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	Item	Size	SAP Number
	Trousers, Men's Long Pants	102	0222472
	Trousers, Men's Long Pants	107	0222473
	Trousers, Men's Long Pants	112	0222474
	Trousers, Men's Long Pants	117	0222476
	Trousers, Men's Long Pants	122	0222477
	Trousers, Men's Long Pants	127	0222478
	Trousers, Men's Long Pants	132	0222479
	Trousers, Men's Long Pants	137	0222480
	Trousers, Men's Long Pants	142	0222481
	Trousers, Men's Long Pants	147	0222482
	Trousers, Men's Long Pants	152	0566736
	Trousers, Men's Long Pants	157	0566737
	Men's Long Pants Clean Conditions		
	Trousers, Men's Long Pants Clean Conditions	77	0566676
	Trousers, Men's Long Pants Clean Conditions	82	0566677
	Trousers, Men's Long Pants Clean Conditions	87	0566678
	Trousers, Men's Long Pants Clean Conditions	92	0566680
	Trousers, Men's Long Pants Clean Conditions	97	0566681
	Trousers, Men's Long Pants Clean Conditions	102	0566682
	Trousers, Men's Long Pants Clean Conditions	107	0566683
	Trousers, Men's Long Pants Clean Conditions	112	0566684
	Trousers, Men's Long Pants Clean Conditions	117	0566685
	Trousers, Men's Long Pants Clean Conditions	122	0566686
	Trousers, Men's Long Pants Clean Conditions	127	0566687
	Trousers, Men's Long Pants Clean Conditions	132	0566688
	Trousers, Men's Long Pants Clean Conditions	137	0566689
	Trousers, Men's Long Pants Clean Conditions	142	0566690
	Trousers, Men's Long Pants Clean Conditions	147	0566691
	Trousers, Men's Long Pants Clean Conditions	152	0566692
	Trousers, Men's Long Pants Clean Conditions	157	0566693
	Ladies		
	Trousers, Ladies Long Pants	67/26	0222499
	Trousers, Ladies Long Pants	72/28	0222500
	Trousers, Ladies Long Pants	77/30	0222501
	Trousers, Ladies Long Pants	82/32	0222502
	Trousers, Ladies Long Pants	87/34	0222503
	Trousers, Ladies Long Pants	92/36	0222504
	Trousers, Ladies Long Pants	97/38	0222505
	Trousers, Ladies Long Pants	102/40	0222506
	Trousers, Ladies Long Pants	107/42	0222507
	Trousers, Ladies Long Pants	112/44	0222508
	Trousers, Ladies Long Pants	117/46	0222509
	Trousers, Ladies Long Pants	122/48	0222510

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	Item	Size	SAP Number
	Trousers, Ladies Long Pants	127/50	0222511
	Trousers, Ladies Long Pants	132/52	0222512
	Trousers, Ladies Long Pants	137/54	0222513
	Jackets		
	Operating Jackets		
	Jacket, Operating. Blue	77	0566481
	Jacket, Operating. Blue	82	0566482
	Jacket, Operating. Blue	87	0222535
	Jacket, Operating. Blue	92	0566544
	Jacket, Operating. Blue	97	0222536
	Jacket, Operating. Blue	102	0566494
	Jacket, Operating. Blue	107	0222537
	Jacket, Operating. Blue	112	0566503
	Jacket, Operating. Blue	117	0222538
	Jacket, Operating. Blue	122	0222539
	Jacket, Operating. Blue	127	0566511
	Jacket, Operating. Blue	132	0222540
	Jacket, Operating. Blue	137	0172193
	Jacket, Operating. Blue	142	0566512
	Jacket, Operating. Blue	147	0172192
	Jacket, Operating. Blue	152	0566513
	Jacket, Operating. Blue	157	0179714
	Operating Jackets Acids & Alkali		
	Jacket, Acids & Alkali	77	0566545
	Jacket, Acids & Alkali	82	0566546
	Jacket, Acids & Alkali	87	0566452
	Jacket, Acids & Alkali	92	0566547
	Jacket, Acids & Alkali	97	0566453
	Jacket, Acids & Alkali	102	0566548
	Jacket, Acids & Alkali	107	0566454
	Jacket, Acids & Alkali	112	0566552
	Jacket, Acids & Alkali	117	0566455
	Jacket, Acids & Alkali	122	0566456
	Jacket, Acids & Alkali	127	0566549
	Jacket, Acids & Alkali	132	0566457
	Jacket, Acids & Alkali	137	0566458
	Jacket, Acids & Alkali	142	0566550
	Jacket, Acids & Alkali	147	0566459
	Jacket, Acids & Alkali	152	0566551
	Jacket, Acids & Alkali	157	0566460
	Operating Jacket, Clean Conditions		
	Jacket, Clean Conditions	77	0566629
	Jacket, Clean Conditions	82	0566630

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	Item	Size	SAP Number
	Jacket, Clean Conditions	87	0566631
	Jacket, Clean Conditions	92	0566632
	Jacket, Clean Conditions	97	0566633
	Jacket, Clean Conditions	102	0566634
	Jacket, Clean Conditions	107	0566635
	Jacket, Clean Conditions	112	0566636
	Jacket, Clean Conditions	117	0566637
	Jacket, Clean Conditions	122	0566638
	Jacket, Clean Conditions	127	0566639
	Jacket, Clean Conditions	132	0566640
	Jacket, Clean Conditions	137	0566641
	Jacket, Clean Conditions	142	0566642
	Jacket, Clean Conditions	147	0566643
	Jacket, Clean Conditions	152	0566644
	Jacket, Clean Conditions	157	0566645
	Thermal Jackets		
	Jacket, Thermal	Small	0222553
	Jacket, Thermal	Medium	0222554
	Jacket, Thermal	Large	0222555
	Jacket, Thermal	X Large	0222556
	Jacket, Thermal	2X Large	0222558
	Jacket, Thermal	3X Large	0222559
	Jacket, Thermal	4X Large	0187793
	Jacket, Thermal	5X Large	0186009
	Jacket, Thermal	6X Large	0197919
	Dust Coat		
	Coat Dust D59 Navy Blue	82	0160926
	Coat Dust D59 Navy Blue	87	0160661
	Coat Dust D59 Navy Blue	92	0566444
	Coat Dust D59 Navy Blue	97	0160660
	Coat Dust D59 Navy Blue	102	0016885
	Coat Dust D59 Navy Blue	107	0160659
	Coat Dust D59 Navy Blue	112	0160658
	Coat Dust D59 Navy Blue	117	0160663
	Coat Dust D59 Navy Blue	122	0160664
	Coat Dust D59 Navy Blue	127	0566442
	Shirts		
	Men's		
	Shirt, Men's L/S Shirts T006	36	0222367
	Shirt, Men's L/S Shirts T006	37	0222370
	Shirt, Men's L/S Shirts T006	38	0222371
	Shirt, Men's L/S Shirts T006	39	0222372
	Shirt, Men's L/S Shirts T006	40	0222374

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	Item	Size	SAP Number
	Shirt, Men's L/S Shirts T006	41	0222375
	Shirt, Men's L/S Shirts T006	42	0222376
	Shirt, Men's L/S Shirts T006	43	0222377
	Shirt, Men's L/S Shirts T006	44	0222378
	Shirt, Men's L/S Shirts T006	45	0222379
	Shirt, Men's L/S Shirts T006	46	0222380
	Shirt, Men's L/S Shirts T006	47	0222381
	Shirt, Men's L/S Shirts T006	48	0222382
	Shirt, Men's L/S Shirts T006	49	0222383
	Shirt, Men's S/S T006	36	0222384
	Shirt, Men's S/S T006	37	0222386
	Shirt, Men's S/S T006	38	0222387
	Shirt, Men's S/S T006	39	0222389
	Shirt, Men's S/S T006	40	0222390
	Shirt, Men's S/S T006	41	0222391
	Shirt, Men's S/S T006	42	0222392
	Shirt, Men's S/S T006	43	0222393
	Shirt, Men's S/S T006	44	0222394
	Shirt, Men's S/S T006	45	0222395
	Shirt, Men's S/S T006	46	0222396
	Shirt, Men's S/S T006	47	0222397
	Shirt, Men's S/S T006	48	0222398
	Shirt, Men's S/S T006	49	0222399
	Ladies		
	Shirt, Ladies L/S T006	77	0222401
	Shirt, Ladies L/S T006	82	0222402
	Shirt, Ladies L/S T006	87	0222403
	Shirt, Ladies L/S T006	92	0222404
	Shirt, Ladies L/S T006	97	0565829
	Shirt, Ladies L/S T006	102	0222405
	Shirt, Ladies L/S T006	107	0222406
	Shirt, Ladies L/S T006	112	0222407
	Shirt, Ladies L/S T006	117	0222408
	Shirt, Ladies L/S T006	122	0222409
	Shirt, Ladies L/S T006	127	0222410
	Shirt, Ladies L/S T006	132	0222411
	Shirt, Ladies L/S T006	137	0222412
	Shirt, Ladies L/S T006	142	0222413
	Shirt, Ladies L/S T006	147	0222414
	Shirt, Ladies S/S T006	77	0222415
	Shirt, Ladies S/S T006	82	0222416
	Shirt, Ladies S/S T006	87	0222417
	Shirt, Ladies S/S T006	92	0222418

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	Item	Size	SAP Number
	Shirt, Ladies S/S T006	97	0565830
	Shirt, Ladies S/S T006	102	0222419
	Shirt, Ladies S/S T006	107	0222420
	Shirt, Ladies S/S T006	112	0222421
	Shirt, Ladies S/S T006	117	0222422
	Shirt, Ladies S/S T006	122	0222423
	Shirt, Ladies S/S T006	127	0222424
	Shirt, Ladies S/S T006	132	0222425
	Shirt, Ladies S/S T006	137	0222426
	Shirt, Ladies S/S T006	142	0222427
	Shirt, Ladies S/S T006	147	0222428
	Rain Protection Suit		
	Rain Suit, Navy Blue 2PC	Small	0222561
	Rain Suit, Navy Blue 2PC	Medium	02225676
	Rain Suit, Navy Blue 2PC	Large	0222566
	Rain Suit, Navy Blue 2PC	X Large	0222567
	Rain Suit, Navy Blue 2PC	2X Large	0222568
	Rain Suit, Navy Blue 2PC	3X Large	0222569
	Rain Suit, Navy Blue 2PC	4X Large	0565711
	Chemical Protection Suit		
	Chemical Suit, Yellow High Visibility 2PC	Small	0565716
	Chemical Suit, Yellow High Visibility 2PC	Medium	0565717
	Chemical Suit, Yellow High Visibility 2PC	Large	0565718
	Chemical Suit, Yellow High Visibility 2PC	X Large	0565719
	Chemical Suit, Yellow High Visibility 2PC	2X Large	0565721
	Chemical Suit, Yellow High Visibility 2PC	3X Large	0565720
	Chemical Suit, Yellow High Visibility 2PC	4X Large	0565722
	Foot Protection		
	Safety Boots Standard Size		
	Boot, Safety Dark Brown	3	0566568
	Boot, Safety Dark Brown	4	0222581
	Boot, Safety Dark Brown	5	0222582
	Boot, Safety Dark Brown	6	0222583
	Boot, Safety Dark Brown	7	0222584
	Boot, Safety Dark Brown	8	0222585
	Boot, Safety Dark Brown	9	0222586
	Boot, Safety Dark Brown	10	0222587
	Boot, Safety Dark Brown	11	0566564
	Boot, Safety Dark Brown	12	0566565
	Boot, Safety Dark Brown	13	0566569
	Safety Boots Wide Size		
	Boot, Safety Dark Brown	3	0566563
	Boot, Safety Dark Brown	4	0222572

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	Item	Size	SAP Number
	Boot, Safety Dark Brown	5	0222573
	Boot, Safety Dark Brown	6	0222574
	Boot, Safety Dark Brown	7	0222575
	Boot, Safety Dark Brown	8	0222576
	Boot, Safety Dark Brown	9	0222577
	Boot, Safety Dark Brown	10	0222578
	Boot, Safety Dark Brown	11	0222579
	Boot, Safety Dark Brown	12	0222580
	Boot, Safety Dark Brown	13	0566566
	Safety Shoe Standard Size		
	Shoe, Safety Dark Brown	3	0566572
	Shoe, Safety Dark Brown	4	0235901
	Shoe, Safety Dark Brown	5	0235902
	Shoe, Safety Dark Brown	6	0235903
	Shoe, Safety Dark Brown	7	0235904
	Shoe, Safety Dark Brown	8	0235905
	Shoe, Safety Dark Brown	9	0235906
	Shoe, Safety Dark Brown	10	0235907
	Shoe, Safety Dark Brown	11	0566575
	Shoe, Safety Dark Brown	12	0566576
	Shoe, Safety Dark Brown	13	0566573
	Safety Shoe Wide Size		
	Shoe, Safety Dark Brown	3	0566570
	Shoe, Safety Dark Brown	4	0235890
	Shoe, Safety Dark Brown	5	0235893
	Shoe, Safety Dark Brown	6	0235894
	Shoe, Safety Dark Brown	7	0235895
	Shoe, Safety Dark Brown	8	0235896
	Shoe, Safety Dark Brown	9	0235897
	Shoe, Safety Dark Brown	10	0235898
	Shoe, Safety Dark Brown	11	0235899
	Shoe, Safety Dark Brown	12	0235900
	Shoe, Safety Dark Brown	13	0566571
	Safety Boot Clean Condition		
	Boot, Safety White Clean Condition	3	0566695
	Boot, Safety White Clean Condition	4	0566696
	Boot, Safety White Clean Condition	5	0566697
	Boot, Safety White Clean Condition	6	0566698
	Boot, Safety White Clean Condition	7	0566699
	Boot, Safety White Clean Condition	8	0566700
	Boot, Safety White Clean Condition	9	0566701
	Boot, Safety White Clean Condition	10	0566702
	Boot, Safety White Clean Condition	11	0566703

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	Item	Size	SAP Number
	Boot, Safety White Clean Condition	12	0566704
	Boot, Safety White Clean Condition	13	0566705
	Shoe Protect		
	Protector: Shoe; Lg 320 X Ht 250mm		0185204
	Gumboots		
	Gumboot, Knee Height; Black	3	0566206
	Gumboot, Knee Height; Black	4	0566207
	Gumboot, Knee Height; Black	5	0566208
	Gumboot, Knee Height; Black	6	0161108
	Gumboot, Knee Height; Black	7	0017014
	Gumboot, Knee Height; Black	8	0117015
	Gumboot, Knee Height; Black	9	0117016
	Gumboot, Knee Height; Black	10	0117017
	Gumboot, Knee Height; Black	11	0017018
	Gumboot, Knee Height; Black	12	0161000
	Gumboot, Knee Height; Black	13	0161114
	Waders		
	Waders	6	0566383
	Waders	7	0160593
	Waders	8	0160594
	Waders	9	0160595
	Waders	10	0160596
	Waders	11	0160597
	Waders	12	0566391
	Waders	13	0566392
	Socks		
	Socks, Cotton A/length Navy Blue	Small/medium	0239825
		Large/x-large	0239827
		X2-large/X3-large	0239828
	Socks, C/Length Navy/Blue	Small/medium	0239829
		Large/x-large	0239830
		X2-large/X3-large	0239831
	Hand and Arm Protection		
	Welding Gloves		
	Pimglove 2.5 inch	Small	0565307
	Pimglove 2.5 inch	Medium	0565308
	Pimglove 2.5 inch	Large	0565309
	Pimglove 2.5 inch	XLarge	0565310
	Pimglove 8 inch	Small	0565311
	Pimglove 8 inch	Medium	0565312
	Pimglove 8 inch	Large	0565313
	Pimglove 8inch	XLarge	0565314

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	Item	Size	SAP Number
	Pimglove 16 inch	Small	0565315
	Pimglove 16 inch	Medium	0565316
	Pimglove 16 inch	Large	0565317
	Pimglove 16 inch	XLarge	0565318
	General Purpose Welding Gloves 2.5 inch "Green"	Small	0565291
	General Purpose Welding Gloves 2.5 inch "Green"	Medium	0160680
	General Purpose Welding Gloves 2.5 inch "Green"	Large	0160816
	General Purpose Welding Gloves 2.5 inch "Green"	XLarge	0565292
	General Purpose Welding Gloves 8 inch "Green"	Small	0565293
	General Purpose Welding Gloves 8 inch "Green"	Medium	0565294
	General Purpose Welding Gloves 8 inch "Green"	Large	0565295
	General Purpose Welding Gloves 8 inch "Green"	XLarge	0565296
	General Purpose Welding Gloves 16 inch "Green"	Small	0565297
	General Purpose Welding Gloves 16 inch "Green"	Medium	0565298
	General Purpose Welding Gloves 16 inch "Green"	Large	0565299
	General Purpose Welding Gloves 16 inch "Green"	XLarge	0565300
	General Purpose Cut Resistant Gloves (Maintenance)		
	Lightweight, cut-resistant, micro-foam nitrile coated glove. EN388 level 3 cut resistance.	6	0555011
	Lightweight, cut-resistant, micro-foam nitrile coated glove. EN388 level 3 cut resistance.	7	0555016
	Lightweight, cut-resistant, micro-foam nitrile coated glove. EN388 level 3 cut resistance.	8	0555014
	Lightweight, cut-resistant, micro-foam nitrile coated glove. EN388 level 3 cut resistance.	9	0555019
	Lightweight, cut-resistant, micro-foam nitrile coated glove. EN388 level 3 cut resistance.	10	0555020
	Lightweight, cut-resistant, micro-foam nitrile coated glove. EN388 level 3 cut resistance.	11	0565290
	General Purpose Gloves		
	General Purpose Ultra –Lightweight, Micro-Foam Nitrile Coated.	6	0565283
	General Purpose Ultra –Lightweight, Micro-Foam Nitrile Coated.	7	0565284
	General Purpose Ultra –Lightweight, Micro-Foam Nitrile Coated.	8	0565285
	General Purpose Ultra –Lightweight, Micro-Foam Nitrile Coated.	9	0565286
	General Purpose Ultra –Lightweight, Micro-Foam Nitrile Coated.	10	0565287
	General Purpose Ultra –Lightweight, Micro-Foam Nitrile Coated.	11	0565288
	Tig Welding Glove		
	Pigskin; garment closing method: elasticated; colour: beige; cuff type: plain; type:	8	0160793

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	Item	Size	SAP Number
	Pigskin; garment closing method: elasticated; colour: beige; cuff type: plain; type:	9	0160855
	Pigskin; garment closing method: elasticated; colour: beige; cuff type: plain; type	10	0160854
	Pigskin; garment closing method: elasticated; colour: beige; cuff type: plain; type:	11	0160963
	Pigskin; garment closing method: elasticated; colour: beige; cuff type: plain; type	12	0160727
	Electrical Gloves		
	Glove, Electrical	6	244598
	Glove, Electrical	7	244599
	Glove, Electrical	8	244600
	Glove, Electrical	9	244601
	Glove, Electrical	10	244602
	Glove, Electrical	11	244603
	Glove, Electrical	12	244604
	Chemical Gloves		
	Chemical protective Glove: type: acid resistant; material: butyl plus R 0.3; colour: black;	7	0565280
	Chemical protective Glove: type: acid resistant; material: butyl plus R 0.3; colour: black	8	0565281
	Chemical protective Glove: type: acid resistant; material: butyl plus R 0.3; colour: black	9	0565282
	Reflective Vests/bibs		
	Evacuation Co-ordinator	Small	0239865
		Medium	0239866
		Large	0239867
		X-Large	0239868
		2X-Large	0239869
		3X-Large	0239871
		4X-Large	0239872
		5X-Large	0239873
		6X-Large	0565467
	First Aid Co-ordinator	Small	0565627
		Medium	0565628
		Large	0565635
		X-Large	0565631
		2X-Large	0565629
		3X-Large	0565630
		4X-Large	0565632
		5X-Large	0565633
		6X-Large	0565634

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	Item	Size	SAP Number
	Fire Protection Co-ordinator (Fire Warden)	Small	0565611
		Medium	0565612
		Large	0565613
		X-Large	0565614
		2X-Large	0565615
		3X-Large	0565616
		4X-Large	0565617
		5X-Large	0565618
		6X-Large	0565619
	Employee at work	Small	0237954
		Medium	0565547
		Large	0565548
		X-Large	0565549
		2X-Large	0565550
		3X-Large	0565551
		4X-Large	0565552
		5X-Large	0565553
		6X-Large	0565554
	Transport Co-ordinator	Small	0565511
		Medium	0565503
		Large	0565505
		X-Large	0565506
		2X-Large	0565507
		3X-Large	0565504
		4X-Large	0565508
		5X-Large	0565510
		6X-Large	0565509
	Management	Small	0565536
		Medium	0565537
		Large	0565538
		X-Large	0565539
		2X-Large	0565540
		3X-Large	0565541
		4X-Large	0565542
		5X-Large	0565543
		6X-Large	0565544
	Freezer Wear		
	Freezer Suits	Small	0239874

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	Item	Size	SAP Number
		Medium	0239875
		Large	0239876
		X-Large	0239877
		2X-Large	0239878
		3X-Large	0239879
		4X-Large	0239880
		5X-Large	0239881
	Body Protection		
	Apron, Chemical full length	One size fits all	0160941
	Apron welder full length	One size fits all	0185205
	Sunscreen Products		
	Creams, Protective UV SPF40+		0222603
	Insect Repellent		
	Gel Stick 30m		0566142
	Bayticol Aerosol Spray		0566182
	Barrier Creams		
	First Aid:Reinol No.1,Skin Protect Cream		0187784
	First Aid:Reinol No.2,Barrier Cream		0187785
	First Aid:Reinol No.3,Skin Barrier Cream		0187786
	First Aid:Reinol No.4, Foot Care Cream		0187787
	Respirators		
	Dust Mask FFP2 with Valve	One size fits all	0566738
	Dust Mask FFP2 without Valve	One size fits all	0566739
	Dust Mask FFP3 with Valve	One size fits all	0566740
	Full Face Mask Reusable Air-Purifying Respirator	One size fits all	0566741
	Single Half Face Mask Reusable Air-Purifying Respirator		0566747
	Canister Filter Gas and Combination Filter		0566742
	Canister Filter Organic Gasses and Vapour		0566746
	Protective Clothing for users of Hand-held chain saws		
	Leg Protectors		*
	Accessories – Tog bag		
	Bag, Kit PVC/CANVAS 600mm x 300mm DIA Blue		0172065

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