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|  | <b>PERSONAL PROTECTIVE EQUIPMENT<br/>SPECIFICATION</b> | <b>ESKOM</b> |
|---|--|--------------|

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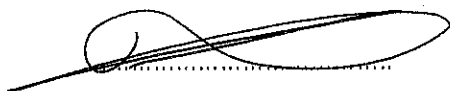
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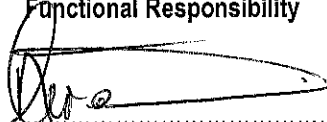
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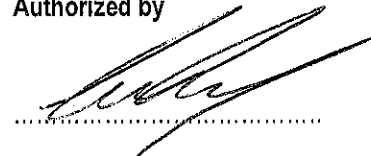
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**FOREWORD**

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**

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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 <sup>2</sup> | 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 ANZIZ87.1 and 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/cm<sup>2</sup>.

#### 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  $\leq 400$ .
- 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  $\leq 400$ .
- 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  $\leq 400$ .
- 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 50kNm<sup>2</sup>). 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, warp1232N/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: I686.( mosquito insects).
- b) Bayticol Aerosol Spray; Insecticide fabric spray that kills ticks and prevent tick bites on humans; composition Flumethrin (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**

|                      | S  |    |    | M  |    |    |    | L  |     |     | XL  | XXL |
|----------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
|                      | 34 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43  | 44  | 46  | 47  |
| Men's Shirts         |    | 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<br>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)

| <b>LADIES LONG SLEEVED SHIRTS SIZE CHART</b> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Sizes  | 77  | 82  | 87  | 92  | 97  | 102 | 107 | 112 | 117 | 122 | 127 | 132 | 137 | 142 | 147 |
| Bust @<br>Base Of<br>Armhole                 | 92  | 97  | 102 | 107 | 112 | 117 | 122 | 127 | 132 | 137 | 142 | 147 | 152 | 157 | 162 |
| Back<br>Length                               | 64  | 65  | 65  | 66  | 66  | 67  | 67  | 68  | 68  | 69  | 69  | 70  | 70  | 71  | 71  |
| Back<br>Width                                | 36  | 38  | 40  | 42  | 44  | 46  | 48  | 50  | 52  | 54  | 56  | 58  | 60  | 62  | 64  |
| Sleeve<br>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  $\pm 4.0\%$

| <b>MEN'S LONG SLEEVE SHIRTS</b> |      |       |                |               |                      |             |
|---------------------------------|------|-------|----------------|---------------|----------------------|-------------|
| Collar<br>Size                  | Size | Chest | Back<br>Length | Back<br>Width | Long Sleeve<br>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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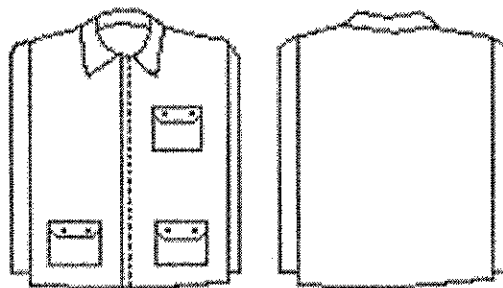
**Annex A**  
(Informative)

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

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

|                                |            |   |          |          |          |          |           |           |           |           |
|--------------------------------|------------|---|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Shoes<br>gumboots and<br>boots | Ladies     |   | 210<br>2 | 220<br>3 | 230<br>4 | 240<br>5 | 250<br>6  | 255<br>7  | 262<br>8  |           |
|                                | Men        | 5 | 247<br>6 | 255<br>7 | 262<br>8 | 270<br>9 | 277<br>10 | 285<br>11 | 292<br>12 | 300<br>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     |
| <b><u>FINISHED DETAILS:</u></b>  |               |
| ENDS/CM                          | 46            |
| PICKS/CM                         | 22            |
| O/ALL WIDTH (CMS)                | 140 to 143    |
| MASS (GSM)                       | 206           |
| <b><u>TENSILE STRENGTH:</u></b>  |               |
| WARP                             | 900           |
| WEFT                             | 350           |
| <b><u>STABILITY%:</u></b>        |               |
| WARP                             | 3             |
| WEFT                             | 3             |
| <b><u>COLOUR FASTNESS:</u></b>   |               |
| WASH                             | 5             |
| RUB                              | 4 - 5         |
| LIGHT                            | 5             |
| <b><u>PILLING:</u></b>           | 2             |
| <b><u>MARTINDALE (RUBS):</u></b> | 10000 - 12000 |
| <b><u>SEAM SLIPPAGE:</u></b>     |               |
| WARP                             | 117N          |
| WEFT                             | 211N          |

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**Annex D****FLAME RETARDANT RETRO REFLECTIVE MATERIAL SEWING ON GARMENTS**

- 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<br>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 |
|--|--|---------|------------|
|  | <b>Head Protection</b>   |         |            |
|  | 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    |
|  | <b>Visor, Sun Brim Safety Hat</b>  |         | 0565828    |
|  | <b>Hair Net</b>  |         | 0566181    |
|  | <b>Soft Hat (Bush Hat)</b>   |         |            |
|  | Hat, Bush Soft   | Small   | 0222349    |
|  | Hat, Bush Soft   | Medium  | 0222351    |
|  | Hat, Bush Soft   | Large   | 0222352    |
|  | Hat, Bush Soft   | X Large | 0222353    |
|  | <b>Eye Protection</b>  |         |            |
|  | 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    |
|  | <b>Face Protection</b>   |         |            |
|  | Face shield, Battery acid / Alkali protection  |         | 0222358    |
|  | Face shield- LV Switching  |         | 0222359    |
|  | Face Shield, Cutting And Grinding  |         | 0232870    |
|  | <b>Face Protection Welding</b>   |         |            |
|  | <b>Welding Helmet Replacement Lenses</b>   |         |            |
|  | 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    |
|  | <b>Hearing Protection</b>  |         |            |
|  | 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 |
|--|-------------------------------------|------|------------|
|  | <b>Overalls</b>                     |      |            |
|  | <b>One Piece</b>                    |      |            |
|  | 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    |
|  | <b>One Piece Acids &amp; Alkali</b> |      |            |
|  | 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    |
|  | <b>Men's</b>                        |      |            |
|  | 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    |
|  | <b>Men's Long Pants Clean Conditions</b>    |        |            |
|  | 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    |
|  | <b>Ladies</b>                               |        |            |
|  | 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    |
|  | <b>Jackets</b>                              |        |            |
|  | <b>Operating Jackets</b>                    |        |            |
|  | 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    |
|  | <b>Operating Jackets Acids &amp; Alkali</b> |        |            |
|  | 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    |
|  | <b>Operating Jacket, Clean Conditions</b>   |        |            |
|  | 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      | 0556637    |
|  | 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    |
|  | <b>Thermal Jackets</b>       |          |            |
|  | 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    |
|  | <b>Dust Coat</b>             |          |            |
|  | 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    |
|  | <b>Shirts</b>                |          |            |
|  | <b>Men's</b>                 |          |            |
|  | 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    |
|  | <b>Ladies</b>                |      |            |
|  | 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    |
|  | <b>Rain Protection Suit</b>               |          |            |
|  | Rain Suit, Navy Blue 2PC                  | Small    | 0222561    |
|  | Rain Suit, Navy Blue 2PC                  | Medium   | 0222566    |
|  | 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    |
|  | <b>Chemical Protection Suit</b>           |          |            |
|  | 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    |
|  | <b>Foot Protection</b>                    |          |            |
|  | <b>Safety Boots Standard Size</b>         |          |            |
|  | 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    |
|  | <b>Safety Boots Wide Size</b>             |          |            |
|  | 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    |
|  | <b>Safety Shoe Standard Size</b>   |      |            |
|  | 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    |
|  | <b>Safety Shoe Wide Size</b>       |      |            |
|  | 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    |
|  | <b>Safety Boot Clean Condition</b> |      |            |
|  | 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    |
|  | <b>Shoe Protect</b>                |                   |            |
|  | Protector: Shoe; Lg 320 X Ht 250mm |                   | 0185204    |
|  | <b>Gumboots</b>                    |                   |            |
|  | 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    |
|  | <b>Waders</b>                      |                   |            |
|  | Waders                             | 6                 | 0566383    |
|  | Waders                             | 7                 | 0160593    |
|  | Waders                             | 8                 | 0160594    |
|  | Waders                             | 9                 | 0160595    |
|  | Waders                             | 10                | 0160596    |
|  | Waders                             | 11                | 0160597    |
|  | Waders                             | 12                | 0566391    |
|  | Waders                             | 13                | 0566392    |
|  | <b>Socks</b>                       |                   |            |
|  | 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    |
|  | <b>Hand and Arm Protection</b>     |                   |            |
|  | <b>Welding Gloves</b>              |                   |            |
|  | 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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|--|--------|------------|
| 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    |
| <b>General Purpose Cut Resistant Gloves (Maintenance)</b>                                  |        |            |
| 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    |
| <b>General Purpose Gloves</b>  |        |            |
| 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    |
| <b>Tig Welding Glove</b>   |        |            |
| 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    |
|  | <b>Electrical Gloves</b>  |          |            |
|  | 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     |
|  | <b>Chemical Gloves</b>  |          |            |
|  | 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    |
|  | <b>Reflective Vests/bibs</b>  |          |            |
|  | 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    |
| <b>Body Protection</b>                                       |                   |            |
| Apron, Chemical full length                                  | One size fits all | 0160941    |
| Apron welder full length                                     | One size fits all | 0185205    |
| <b>Sunscreen Products</b>                                    |                   |            |
| Creams, Protective UV SPF40+                                 |                   | 0222603    |
| <b>Insect Repellent</b>                                      |                   |            |
| Gel Stick 30m  |                   | 0566142    |
| Bayticol Aerosol Spray                                       |                   | 0566182    |
| <b>Barrier Creams</b>  |                   |            |
| 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    |
| <b>Respirators</b>   |                   |            |
| 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    |
| <b>Protective Clothing for users of Hand-held chain saws</b> |                   |            |
| Leg Protectors   |                   | *          |
| <b>Accessories – Tog bag</b>                                 |                   |            |
| Bag, Kit PVC/CANVAS 600mm x 300mm DIA Blue                   |                   | 0172065    |

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