Safetyware

SAFETYWARE GROUP
Responsibility & Care

BODY
PROTECTION

APRON

Chemical & Liquid Protective Aprons
Protection rating for chemical and mechanical help to get your ideal apparel.

Chemical & Mechanical Protection Rating

Poor	Moderate	Good	Excellent	Best
★☆☆☆☆	★★☆☆☆	★★★☆☆	★★★★☆	★★★★★

CUSTOM MADE, LENGTH & ADDITIONAL SERVICES AVAILABLE

Disposable Polyethylene Apron

Item Code	Colour	Width	Length	Chemical Protection	Mechanical Protection	Unit
HPEAS3155-WHT-B	White	31"	55"	★☆☆☆☆	★☆☆☆☆	BAG

• Made with good quality polyethylene (PE) which offers basic protection against non-harmful particles and liquid splashes
• Disposable and is ideal for food processing, beauty, manufacturing, hygienic application & daily use
• Anti-dust, waterproof
• Light, breathable, comfortable, excellent softness

Medium Duty PVC Apron

Item Code	Colour	Size	Thickness	Material	Chemical Protection	Mechanical Protection	Unit
APRPVC2436MD	Translucent	24" x 36"	0.20mm	PVC	★★☆☆☆	★★☆☆☆	EA
APRPVC2448MD	Translucent	24" x 48"	0.20mm	PVC	★★☆☆☆	★★☆☆☆	EA
APRPVC3543MD	Translucent	35" x 43"	0.20mm	PVC	★★☆☆☆	★★☆☆☆	EA
APRVINYLTPR	Translucent	S - 5XL	0.20mm	PVC	★★☆☆☆	★★☆☆☆	EA

• Offer economical liquid proof protection against light chemicals, fats, oils, grease, punctures, and abrasions
• Ideal for chemical processing, food handling & preparation, cleaning & janitorial works and industrial maintenance
• Coat apron style (APRVINYLTPR) offers full body coverage
• Available in a variety of styles & sizes

APRPVC3543MD

APRVINYLTPR
(Coat Apron)

Heavy Duty PVC Apron

Item Code	Colour	Size	Thickness	Material	Chemical Protection	Mechanical Protection	Unit
APRPVC2448HD07	Black	24" x 48"	0.70mm	PVC	★★★☆☆	★★★☆☆	EA

• Made with PVC coated fabric which offers economical yet good protection against chemical, liquid splashes, dirt and oil & grease
• Ideal for chemical handling, cleaning works, and general industrial use
• Custom made styles & sizes are available

Aluminized Heat Protection Apron

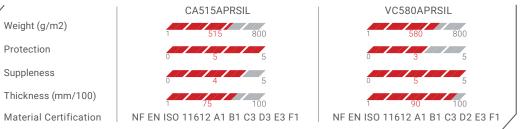| Item Code	Colour	Size	Material	Protection	Unit
VC580APRSIL23	Silver	24" x 36"	580gsm Reflespace® Aluminized Viscose FR Fabric	Radiant Heat	EA
VC580APRSIL24	Silver	24" x 48"	580gsm Reflespace® Aluminized Viscose FR Fabric	Radiant Heat	EA
CA515APRSIL23	Silver	24" x 36"	515gsm Reflespace® Aluminized Carbon- Aramid Fabric	Radiant Heat	EA
CA515APRSIL24	Silver	24" x 48"	515gsm Reflespace® Aluminized Carbon- Aramid Fabric	Radiant Heat	EA

• Made of Aluminized Fabric with Reflespace® Technology
• The aluminized material helps to reflect up to 95% radiant heat
• Provides protection from radiant heat, sparks, and molten metal splash
• Leather strap with slide snap at waist and neck

Specifications

	CA515APRSIL	VC580APRSIL
Weight (g/m2)	1 — 515 — 800	1 — 580 — 800
Protection	0 — 5 — 5	0 — 3 — 5
Suppleness	0 — 4 — 5	0 — 5 — 5
Thickness (mm/100)	1 — 75 — 100	1 — 90 — 100
Material Certification	NF EN ISO 11612 A1 B1 C3 D3 E3 F1	NF EN ISO 11612 A1 B1 C3 D2 E3 F1

Stainless Steel Mesh Apron

Item Code	Colour	Size	Material	Protection	Unit
APRSS2124	Silver	21" x 24"	Stainless Steel Mesh	Cut Resistant	EA
APRSS2431	Silver	24" x 31"	Stainless Steel Mesh	Cut Resistant	EA

• Constructed from high quality stainless-steel mesh which each ring is individually welded for optimum performance
• Provides excellent protection against cuts and slashes
• Easy to clean and resistant to bacteria which make it ideal for food service and food processing

*check info

SAFEMAX XProtect 2Protective Coverall with hood

Item Code	Colour	Size	Material	Unit
XP2	White	S-3XL	Non-woven Microporous 60 gsm	EA

• Good barrier to particulates & low hazard liquid sprays or splashes.
• Barrier to biological hazards and infective agents.
• Barrier to radioactive particulates contamination.
• Clothing with electrostatic properties.
• 4-thread overlocked seam provides stronger seam strength.
• Reinforced diamond crotch provides more strength & ease of movement.

CE

RAINWEAR

Rainwear functions to keep the wearer dry and therefore, it is very handy to keep a rainwear around at any time of the year for your needs, whether you're working or doing leisure activities outdoor. We provide a selection of rainwear that is comfortable and stylish, yet lightweight and breathable.

There are a few ranges of rainwear that are bright in colours and come with reflective tapes to increase the wearer's visibility and presence especially when the wearer is working or walking in the dark. Other than conventional rainwear, we also provide rainwear with special feature such as flame retardant rainwears that are suitable for people working at environment with the risk of flash fire.

SHVRS190   SHVRC190

190T Polyester Rain Suit / Rain Coat with Silver Reflective Stripes

Item Code	Style	Colour	Size	Material	Coating	Unit
SHVRS190	Rain Suit	Neon Green	M - 2XL	190T Polyester	PVC	EA
SHVRC190	Rain Coat	Neon Green	M - 2XL	190T Polyester	PVC	EA

• Drawstrings with pulls to tighten the hood
• 5 cm silver reflective stripes on arm, chest, and back which provide safety at night
• Cape ventilated back for breathability
• Underarm vents increased airflow for added comfort
• Elastic cuff
• Zipper front closure with snap on button closure storm flap for extra waterproofing & protection
• Snap on button are nonconductive, noncorrosive & rust proof
• 2 lower flap covered front pockets for storage and convenience

Trouser:
• Elasticated waist
• Reinforced crotch offers more strength and ease of movement

Radiant heat is the highest heat temperature can be found in the industry that uses to molten some metal such as steel, aluminium, etc. Human difficult to stay close to it and may easily get a burn on the skin. Perfectly aluminized heat protection clothing is supplemented with gloves and protective headgear.

User is protected against dangers caused by radiant heat and contact heat.

Radiant Heat
High ambient temperature without direct contact to heat source with the PPE

Contact Heat
Direct contact to the heat source (flying sparks or hot slog)

POSSIBLE CONSEQUENCES OF OVERHEATING DURING WORK EXPOSED TO HEAT

37°C
36°C
32°C
28°C
34°C
31°C

Additional Burden
• Heat
• Work
• Bad PPE

37°C
36°C

Possible Health Effects

• *Inability to properly regulate body temperature*
• *Cardiac and circulatory problems*
• *General well-being*
• *Heat fatigue*
• *Stress on the cardiovascular system*
• *Heat stroke / Muscular cramps*
• *Hyperthermia*
• *Organ malfunction*
• *Death*

DICKSON PTL REFLESPACE

Reflespace® Aluminization

• An innovative technology to laminate aluminium foil without polyester film
• Excellent behaviour to ferrous and non-ferrous molten metal splashes
• Outstanding mechanical resistance
• Does not melt in contact with flames, heat and molten metals
• Cleangard lacquer: protects and enhances the aluminium reflectance efficiency
• Complies with ISO 11612 and NF EN 407

DICKSON PTL REFLESPACE
ALUMINIZATION

STANDARD ALUMINIZED FABRIC*
*Fabric laminated with a double-sided aluminized Polyester film

MOLTEN ALUMINIUM
(+780°C/ +1436°F)

Aluminium Foil
with Cleangard lacquer

High Temperature
Glue

Base Cloth

PVC Film
(or Your Skin)

Aluminium Foil

Polyester Film
The film starts to melt and damages immediately the fabric

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DICKSON PTL REFLESPACE

Traditional Aluminized Fabric
(Double aluminium foil with polyester film in between)

Test* for

Splashes of molten aluminium
Placing the fabric at 45° pour 780°C molten aluminium at certain quantity to see the damage of PVC film underneath

*This test has been conducted in Dickson PTL internal lab

REFLESPACE Aluminization film/Para-aramid base cloth

PVC FILM (Simulating to human skin)

Aluminization with polyester film/Para-aramid base cloth

PVC FILM (Simulating to human skin)

Material Specifications

	4585 515gsm Aluminized Carbon-Aramid Fabric	5340 135gsm Aluminized Polyester Film	5451 580gsm FR Viscose Black
Base cloth	Carbon-aramide	Fiberglass	FR Viscose Black
Total weight (NF EN ISO 4674-1)	515 g/m² ±30 [≈ 15.19 oz/yd² ± 0.9]	135 g/m² ±5 [≈ 3.98 oz/yd² ± 0.15]	580 g/m² ±50 [≈ 17.11 oz/yd² ± 1.47]
Width	1500mm [59 inches]	1500mm [59 inches]	1500mm [59 inches]
Tear strength (NF EN ISO 4674-1)	Warp ≥ 8 daN Weft ≥ 9 daN	Warp ≥ 2 daN Weft ≥ 3 daN	Warp ≥ 6 daN Weft ≥ 6 daN
Thickness (NF EN ISO 2286-3)	0.75 mm ± 0.06	0.13 mm ± 0.02	0.90 mm ± 0.05
Certification (NF EN ISO 11612)	A1 B1 C3 D3 E3 F1	A1 B1 C4	A1 B1 C3 D2 E3 F1
Protection	★★★★★	★★★★☆	★★★☆☆

VC580 = 580GSM ALUMINIZED CARBON-ARAMID FABRIC
CA515 = 515GSM ALUMINIZED VISCOSE FR FABRIC

SAFETYWARE Aluminized Heat Protection Hood
VC580HODSIL / CA515HODSIL
• For head, throat, neck and chest protection
• Flexible fabric
• High heat reflection
• Heavy duty
• Easy to use

SAFETYWARE Aluminized Heat Protection Jacket
VC580JKTSIL / CA515JKTSIL
• Flexible fabric
• Very pleasant wearing comfort
• High heat reflection
• Insulated snaps, stand-up collar, hook-and-loop fastener

SAFETYWARE Aluminized Heat Protection Apron
VC580APRSIL / CA515APRSIL
• Lightweight and comfortable
• Heavy duty and washable
• White PVC reflective tape for increased
• Hook and loop closure for easy access
• Generous fit for wearer comfort

SAFETYWARE Aluminized Heat Protection Trouser
VC580PNSSIL / CA515PNSSIL
• Flexible fabric
• Very pleasant wearing comfort
• High heat reflection
• Insulated snaps, hook-and-loop fastener, belt loops

SAFETYWARE Aluminized Heat Protection Gaiters
VC580GAISIL / CA515GAISIL
• Easy to use
• Resistant to flying sparks
• With hook-and-loop fastener
• Length of 20 cm to 70 cm
• Adjusted to shoe sizes on request

SAFETYWARE Aluminized Heat Protection Coat
VC580LCLSIL / CA515LCLSIL
• Flexible fabric
• Very pleasant wearing comfort
• High heat reflection
• Insulated snaps, stand-up collar, hook-and-loop fastener

EN ISO 11612

HIGH VISIBILITY

Safetyware Hi-Viz Safety Vest is the safety gear to keep the wearer visible to others when in any occupational. Moreover, standards for safety vests are no different. But the most important is implementing to protect emergency responders raising their visibility to coworkers. By the selection guide below can help you select your ideal combination to create your safety vest.

Design Selection Guideline

Step 1 SV

Code for safety vest is **SV**.

Step 2 Pattern

Code for reflective tape pattern.

00	No Reflective Safety Vest
01	No Reflective Safety Vest With Back Meah
1R	1 Horizontal
2R	2 Horizontal
3R	1 Horizontal + 2 Vertical
4R	2 Horizontal + 2 Vertical
34	2 Reflective Front Shoulder + 1 Horizontal (Upper Waist Pocket) + 1 Horizontal (Bottom Waist Pocket)
69	2 Horizontal + 2 Vertical + 2 Horizontal 2cm Photoluminous Tape (Front & Back)

Step 3 Reflective Tape

Code for reflective tape material.

1	2-inch W-style White PVC Reflective Tape
2	2-inch W-style Yellow PVC Reflective Tape
3	2-inch W-style Orange PVC Reflective Tape
4	2-inch Silver Reflective Tape (T/C Back)
T	REFLOMAX TRG501 Diamond Pattern White PVC Reflective Tape
6	Lime Orange + Silver + Lime Orange
7	Lime Yellow + Silver + Lime Yellow
S	2-inch Silver/ Photoluminous Reflective Tape
P	2cm Photoluminous Tape
X	Without Reflective Tape

Step 4 Material

Code for fabric material.

K	Polyester Knit
M	Polyester Mesh
T	TC Drill

Step 5 Accessories

Code for accessories on the vest.

N	Front Name Tag Holder
P	Front Pen Holder
X	Without Accessories

Step 6 Closure

Code for closure material.

V	Velcro
Z	Zip
N	Nickel Button

Step 7 Pocket

Code for number of pocket attach.

0	No Patch Pocket
1	1 Patch Pocket
D	2 Patch Pockets
T	3 Patch Pockets
F	4 Patch Pockets

Step 8 Colour

Code for vest's colour.

ORN	Orange
YLW	Yellow
NBL	Navy Blue
RED	Red
BLK	Black

Step 9 Size

Code for size available.

SM	Small
MD	Medium
LG	Large
XL	Extra Large
2XL	2 Extra Large
3XL	3 Extra Large
4XL	4 Extra Large
5XL	5 Extra Large

4R
4
K
Z
YLW

EXAMPLE

YOUR ART NO:

SV4R4KZ0YLWMD

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HIGH-VIS SAFETY VEST

SV101
Essential 1R High-Vis Safety Vest

Colour	Fluorescent Yellow & Orange
Size	S/M, L/XL, 2XL/3XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	1x Horizontal Grey Reflective Tape
Closure	Velcro
Unit	EA

SV102
Essential 2R High-Vis Safety Vest

• Durability and breathability
• Adorned with Grey Micro-Glass Beads Reflective Tape with a Polyester Backing providing high visibility (>400 cd/lux/m²)

Colour	Fluorescent Yellow & Orange
Size	S/M, L/XL, 2XL/3XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	2x Horizontal Grey Reflective Tape
Closure	Velcro
Unit	EA

SV103
Essential 3R High-Vis Safety Vest

Colour	Fluorescent Yellow & Orange
Size	S/M, L/XL, 2XL/3XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	1x Horizontal & 2x Vertical Grey Reflective Tape
Closure	Velcro
Unit	EA

SV121
Essential 1R High-Vis Safety Vest

Colour	Fluorescent Yellow & Orange
Size	S/M, L/XL, 2XL/3XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	1x Horizontal Prismatic PVC Tape
Closure	Velcro
Unit	EA

SV122
Essential 2R High-Vis Safety Vest

• Durability and breathability
• Adorned with 5cm White PVC Prismatic Reflective Tape (>300 cd/lux/m²)

Colour	Fluorescent Yellow & Orange
Size	S/M, L/XL, 2XL/3XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	2x Horizontal Prismatic PVC Tape
Closure	Velcro
Unit	EA

HIGH-VIS SAFETY VEST

SV123
Essential 3R High-Vis Safety Vest

SV124
Essential 4R High-Vis Safety Vest

• Durability and breathability
• Adorned with 5cm White PVC Prismatic Reflective Tape (>300 cd/lux/m²)

Colour	Fluorescent Yellow & Orange
Size	S/M, L/XL, 2XL/3XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	1x Horizontal & 2x Vertical Prismatic PVC Tape
Closure	Velcro
Unit	EA

Colour	Fluorescent Yellow & Orange
Size	S/M, L/XL, 2XL/3XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	2x Horizontal & 2x Vertical Prismatic PVC Tape
Closure	Velcro
Unit	EA

SV202
Premium 2R High-Vis Safety Vest

SV204
Premium 4R High-Vis Safety Vest

• Durability and breathability
• Adorned with Silver Micro-Glass Beads Reflective Tape with T/C Backing (>450 cd/lux/m²)
• Compliant with EN 20471 Standard

Colour	Yellow, Orange, Red, Royal Blue, Navy Blue, Black
Size	S - 7XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	2x Horizontal Silver Reflective Tape
Closure	Zipper
Unit	EA

Colour	Yellow, Orange, Red, Royal Blue, Navy Blue, Black
Size	S - 7XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	2x Horizontal & 2x Vertical Silver Reflective Tape
Closure	Zipper
Unit	EA

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HIGH-VIS SAFETY VEST

SV401
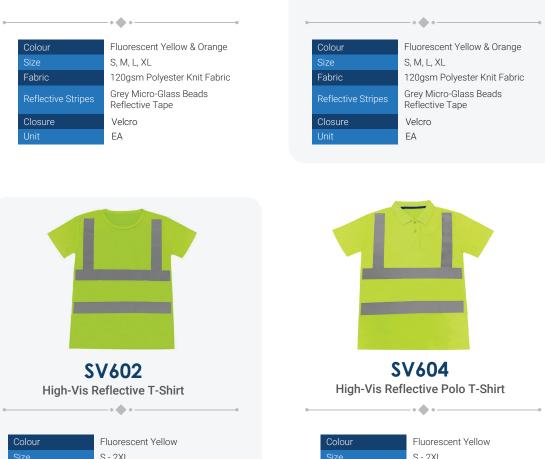**Essential A Shape High-Vis Safety Vest**

SV402
Essential V Shape High-Vis Safety Vest

• Durability and breathability
• Adorned with Grey Micro-Glass Beads Reflective Tape with a Polyester Backing providing high visibility (>400 cd/lux/m²) even in low-light conditions.
• Compliant with EN 20471 Standards

Colour	Fluorescent Yellow & Orange
Size	S, M, L, XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	Grey Micro-Glass Beads Reflective Tape
Closure	Velcro
Unit	EA

Colour	Fluorescent Yellow & Orange
Size	S, M, L, XL
Fabric	120gsm Polyester Knit Fabric
Reflective Stripes	Grey Micro-Glass Beads Reflective Tape
Closure	Velcro
Unit	EA

SV602
High-Vis Reflective T-Shirt

Colour	Fluorescent Yellow
Size	S - 2XL
Reflective Stripes	2x Horizontal + 2x Vertical Silver Reflective Tape
Unit	EA

SV604
High-Vis Reflective Polo T-Shirt

Colour	Fluorescent Yellow
Size	S - 2XL
Reflective Stripes	2x Horizontal + 2x Vertical Silver Reflective Tape
Unit	EA

Elastic Belt V-Type Safety Vest

Item Code	Colour	Size	Fabric	Reflective Stripes	Closure	Unit
EBELTV00	Yellow, Orange	Universal	Elastic Webbing	1x Horizontal + 2x Vertical Silver T/C Reflective Tape	Buckle	EA

• High visibility colour and heat-sealed silver reflective print for excellent visibility
• Adjustable straps for a secure fit
• Elasticated straps