

Industry

Protection **YOU** Deserve



**Established in 1980, Kivanç Group continues its activities in 4 divisions;
Safety, Engineering, Mining and Technical Textile.**

In Safety Division, personal protective clothing against heat and flame, static discharges, arc flashes, molten metals, welding spatters is produced.

Our company has established the first heat laboratory for personal protective garments in Turkey. Following the second investment that we have made, our physical test laboratory has commenced to provide services. In our heat and physical test laboratory, raw materials (fabrics, accessories etc.) and finished products (protective garments) are tested in accordance with EN and ISO standards. In our laboratory, which serves for R&D purposes also, new products are developed and all controls are performed before CE certification. These controls enhance product reliability and expedite required processes.

Thanks to the barcode system which have been integrated to our ERP (Enterprise Resource Planning) software that we have been using since 2009, the traceability has been made available and all product processes can be monitored. Depending upon work order number on the label of garments produced by our company, date of production; materials used in that production; date, lot number and supplier of the raw materials could be traced back. We also offer Product Liability Insurance for protective garments we produce. The cost of damages that may arise from the incidents to be encountered by the people using our garments due to material and faulty workmanship have been guaranteed within this insurance.

In Engineering Division, thermal insulation applications to reduce the heat loss are done by using high temperatureresistant glass fiber based materials. We manufacture removable insulation pads for turbines, plastic injection molding machines, textile dying machines, exhaust parts of vehicles, valves etc. Correct materials are used by calculating the heat loss, minimum thickness of insulation, surface temperature etc. Thermal imaging cameras are used to find the heat loss areas.

In Mining Division, Silica (Quartz) Sand and Musselstone are extracted.

- Silica (Quartz) Sand is used in potable and waste water filtration, in construction chemicals, in railroads as a skid preventing sand, in hippodromes, in pitch and sports fields and in many other fie ds.

- Musselstone is a compact stone that consists of limestone, silica and fossil sediment (such as clams and mussels). It is in light beige color, highly or partly porous with fossil according to its formation. Musselstone has been used frequently in artistic works that require aesthetic, elegance and art such as interior spaces, coves, columns, jambs, exedras, wall copings, fire places, landscaping, reliefs, crown gates, portal, altars, minibars, birdhouses, benevolence stones. Nowadays, it is used for restoration of historical buildings, and in new buildings, kiosks, villas waterfront residences, garden walls, walking trails, and in similar places.

In Technical Textile Division, we start from fiber and produce our own technical yarns and fabrics.





Industry

INDUSTAR

Heat & Flame Protection

ARCSTAR

Electric Arc Protection

METALSTAR

Molten Metal Splash Protection

REFSTAR

Radiant Heat Protection

FORESTAR

Chainsaw Protection

Protection **YOU** Deserve

INDUSTAR

Heat & Flame Protection

Protection **YOU** Deserve

Why INDUSTAR?

Despite the very high health and safety standards prevalent within the oil and gas industry, its workers can still face a vast number of hazards including flash-over situations. Workers are exposed to heat & flames during flash-over.

Traditional fabrics like cotton or polyester continue burning, melt or drip in case of a flash-over situation which takes 3-4 seconds only.

INDUSTAR Protective Clothing provides permanent flame resistance; does not melt, ignite and continue burning; insulates the wearer from heat and decrease/avoid heat burns; provide time to escape; increases the chance of survival.

Application Areas

- Oil & Gas
- Refineries
- Off-shore
- Petrochemical Companies
- Ammunition Factories
- Fire-works Manufacturers
- Cement Industry
- Glass Industry
- Military & Police
- Railways
- Shipbuilding Industry

ISO 11612 Heat & Flame Protection:

The purpose of this standard is to provide minimum performance requirements for clothing to protect against heat and flame. Within many of hazards listed in this standard there are three performance levels (except Radiant Heat where there are 4 Levels). Level 1 indicates exposure to perceived low risk, Level 2 indicates exposure to perceived medium risk and Level 3 indicates exposure to perceived high risk.

- Code A: Limited Flame Spread (A1, A2)
- Code B: Convective Heat (B1, B2, B3)
- Code C: Radiant Heat (C1, C2, C3, C4)
- Code D: Molten Aluminum (D1, D2, D3)
- Code E: Molten Iron (E1, E2, E3)
- Code F: Contact Heat (F1, F2, F3)

EN 1149-5 Electrostatic Properties:

This European Standard specifies material and design requirements for electrostatic dissipative protective clothing used as part of total earthed system, to avoid incendiary discharges. The requirements may not be sufficient in oxygen enriched flammable atmospheres. This European Standard may not be applicable for protection against main voltages.



KIVANÇ
Group



INDUSTAR

BORIS

834227 - Jacket & Trousers

www.kivancgroup.com

BORIS | Jacket & Trousers

Model Details

JACKET

- » Jacket is multi-layer
- » Lower welt pockets with zipper ①
- » Cuff adjustment by means of a Velcro tape and a buckle ①
- » Front flap closed by means of a zipper and Velcro tapes ②
- » 5 cm wide segmented silver and yellow-silver-yellow reflective tapes ②
- » Velcro tapes on right sleeve for logo and name tag ②
- » Hanger on the back of the jacket ③
- » Chest pockets with zipper
- » Loop above the right chest pocket for radio, flashlight or gas detector
- » Armpit gussets for easy and comfortable arm movement
- » Reinforcement on shoulders and elbows



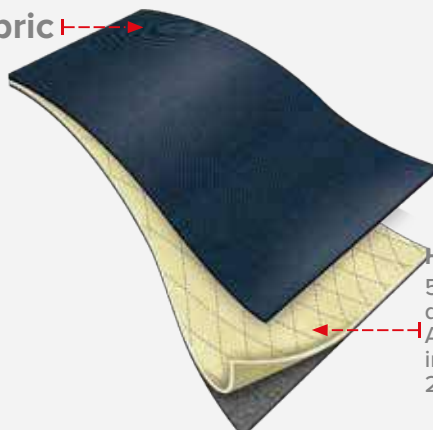
TROUSERS

- » Trousers are single-layer
- » Wear resistant knee reinforcement with replaceable padding ④
- » Comfort-enhancing flexible knee system for easy and comfortable body movement ④
- » Belt loops for narrow and wide belts ⑤
- » Side bellow cargo pockets with flaps closed by Velcro tapes ⑤
- » Slash pockets and back pockets
- » 5 cm wide segmented yellow-silver-yellow reflective tapes on both legs
- » Reinforcements on the back of the trousers



Outershell Fabric

380 Fire Blocker
220 g/m² 2/2 Twill
93% Meta-aramid,
5% Para-aramid,
2% Antistatic



Heat Barrier
5003 Aramid felt
quilted to an
Aramid/Viscose FR
inner lining
250 g/m²



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)

DARK
BLUE



RED

DARK
BLUE



ROYAL
BLUE



KIVANÇ
Group



INDUSTAR
MARCO

837270 - Jacket & Trousers

www.kivancgroup.com

MARCO | Jacket & Trousers

Model Details

JACKET

- » Comfort-enhancing back bellows ①
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves ①
- » Cuff adjustment by means of a Velcro tape and buckle ②a ②b ②c
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves
- » Silver segmented reflective tape on the back of jacket
- » Hem adjustment by means of a Velcro tape and buckle
- » Chest pockets with flaps closed by means of Velcro tapes
- » Lower welt pockets with flaps ③
- » Front flap closed by means of a zipper and Velcro tapes
- » Interior design with red lines

TROUSERS

- » Semi bellow cargo pockets with flaps closed by Velcro tape ④
- » Ergonomic cut of trousers waist ⑤
- » 5 cm wide yellow-silver-yellow reflective tapes ⑤
- » Elastic belt system ⑥
- » Slash pockets
- » Semi bellow cargo pockets on the back with flaps closed by Velcro tape ⑥
- » Trotter adjustment by means of Velcro tapes and buckle ⑦



335

Fire-Blocker 200g/m² 2/1 Twill
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



EN 61482-14ATPV
7,5 cal/cm²

DARK
BLUE



ROYAL
BLUE

DARK
BLUE



GREY



KIVANÇ
Group



INDUSTAR

KELVIN

837277 - Jacket & Trousers

www.kivancgroup.com

KELVIN | Jacket & Trousers

Model Details

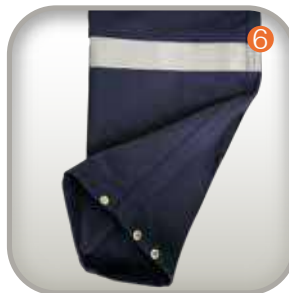
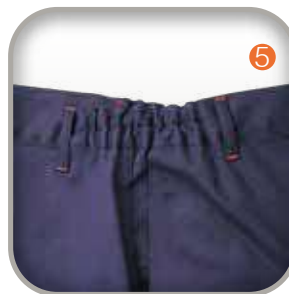
JACKET

- » Overlapped seam to allow the molten metal splash to flow from the fabric surface
- » Comfort-enhancing back bellows ①
- » Additional piece of fabric on armpit for comfortable movement
- » Inclined chest pockets with flaps closed by means of Velcro tape
- » Jacket closed by means of a front zipper and Velcro tapes
- » Additional flap under zipper ②
- » Cuff adjustment by means of snap buttons ③
- » Interior design with grey lines ④
- » Silver reflective tapes on sleeves and jacket hem



TROUSERS

- » Slash pockets
- » Elastic belt system ⑤
- » Trotter adjustment by means of snap buttons ⑥
- » Front closure with a zipper and button
- » Silver reflective tapes on both legs



329

Proban 335 g/m² 4/1 Sateen
99% FR Cotton, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
E2 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 1

DARK
BLUE



ROYAL
BLUE

ROYAL
BLUE



RED

DARK
BLUE



RED

BLACK



GREY

363

Heavy Metal 330 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2

DARK
BLUE



LIGHT
BLUE

GREY



DARK
BLUE

310

Heavy Metal 375 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2

DARK
BLUE



LIGHT
BLUE

GREY



DARK
BLUE



KIVANÇ
Group



INDUSTAR

ADAM

837275 - Jacket & Trousers

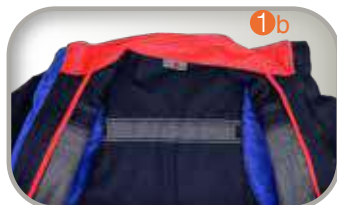
www.kivancgroup.com

ADAM | Jacket & Trousers

Model Details

JACKET

- » Comfort-enhancing J-type back bellows **1a**
- » Elastic tape and tunnel for J-type bellow **1b**
- » Additional piece of fabric on armpit for comfortable movement
- » Cuff adjustment by means of a Velcro tape and buckle **2**
- » 5 cm wide silver reflective tapes on chest and back
- » 3 cm wide silver reflective tapes on sleeves
- » Lower welt pockets
- » Hem adjustment by means of a Velcro tape and buckle
- » Front flap closed by means of a zipper and Velcro tapes
- » Interior design with orange lines



TROUSERS

- » Semi bellow side cargo pockets with silver reflective piping **3**
- » Back pocket on the right with flaps and silver reflective piping **4**
- » Slash pockets
- » Elastic belt system **5**
- » Trotter adjustment by means of Velcro tape and buckle
- » Trousers front closed by means of a zipper and button
- » 3 cm wide silver reflective tapes
- » Bi-coloured trotters **6**



342

Body Guard 250 g/m² 2/1 Twill
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN ISO 11611
Class 1



EN 61482-1-1
8,7 cal/cm²

DARK
BLUE



ROYAL
BLUE

ROYAL
BLUE



ORANGE

BLACK



GREY



KIVANÇ
Group



INDUSTAR
LUCAS

829257 - Waterproof Jacket

www.kivancgroup.com

LUCAS | Waterproof Jacket

Model Details

- » Water and windproof hood with drawcord, detachable by means of a zipper ①
- » Jacket has a moisture barrier, all seams are seam-sealed to prevent water leakage
- » Front flap closure by means of a zipper and Velcro tapes
- » Chest patch pockets with flaps closed by means of Velcro tapes ②
- » Velcro tapes to fix name and blood type tags ②
- » Radio, flashlight and gas detector loops above the chest pockets ②
- » Lower patch pockets with flaps
- » 2.5 cm wide segmented silver reflective tapes on chest ②
- » Cuff adjustment by means of Velcro tape ③
- » Pen pockets on both sleeves ④
- » Velcro tape on right sleeve for logo ④
- » Comfort-enhancing back bellows
- » Inner pocket
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves, chest and hem ⑤
- » Adjustable jacket hem by means of Velcro tapes

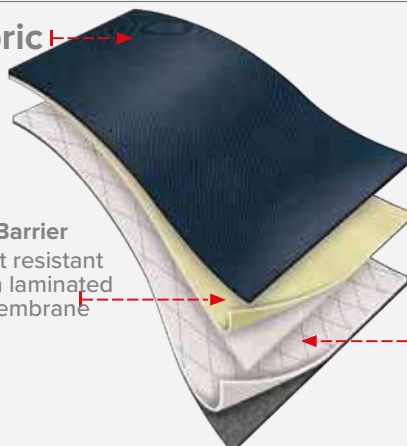


Outershell Fabric

380 Fire Blocker
220 g/m² 2/2 Twill
93% Meta-aramid,
5% Para-aramid,
2% Antistatic

Moisture Barrier

4000 Heat resistant
nonwoven laminated
to a PU Membrane
90g/m²



Heat Barrier

5003 Aramid felt
quilted to an
Aramid/Viscose FR
inner lining
250 g/m²



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class2(7kA)



DARK
BLUE



ROYAL
BLUE



GREY



RED



KIVANÇ
Group



INDUSTAR
PASCAL

829242 - Waterproof Jacket

www.kivancgroup.com

PASCAL | Waterproof Jacket

Model Details

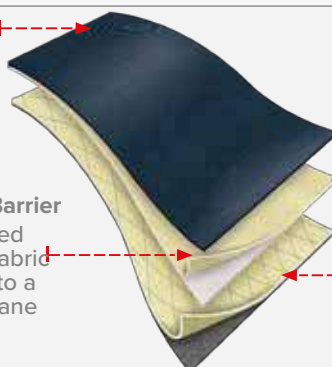
- » Water and windproof hidden hood with drawcord ①
- » Jacket has a moisture barrier, all seams are seam-sealed to prevent water leakage
- » Front flap closed by means of a zipper and Velcro tapes ②
- » Lower welt pockets with flaps closed by Velcro tapes ③
- » Chest pockets with flaps closed by Velcro tapes ④
- » Armpit gussets for easy and comfortable movement
- » Elastic cuff with additional adjustment through Velcro tape ⑤
- » Drawcord on jacket hem ⑥
- » 5 cm wide yellow-silver-yellow reflectives tape on sleeves and chest



Outershell Fabric

329 FR Cotton Antistatic
335 g/m² 4/1 Sateen
99% FR Cotton,
1% Antistatic

Moisture Barrier
4004 Knitted
polyester fabric
laminated to a
PU Membrane
85g/m²



Heat Barrier

5004 Double layer
Aramid felt quilted to an
Aramid/Viscose FR lining
380g/m²



EN ISO 11612
A1 A2 B1 C1 E2 F1 EN 1149-3



EN 1149-3
Class 1



EN ISO 11611
Class 1



DARK
BLUE



ROYAL
BLUE



RED



ORANGE



KIVANÇ
Group



INDUSTAR

ALEX

838282 - Coverall

www.kivancgroup.com

ALEX | Coverall

Model Details

- » Front flap closed by means of a zipper and Velcro tapes
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves, back and legs
- » 2,5 cm wide segmented reflective tapes on chest and back
- » 2 Chest pockets with flaps closed by means of Velcro tapes
- » Radio, flashlight and gas detector loops on the chest pockets
- » Pen pocket on right sleeve and velcro tape on left sleeve for logo
- » Comfort-enhancing flexible waist system for easy and comfortable body movement **1**
- » Comfort-enhancing J-type back bellows **2**
- » Elastic tape and tunnel for J-type bellow **3**
- » Cuff adjustment by means of snap buttons **4**
- » Slash pockets
- » Semi bellow cargo pocket on right side with flap closed by means of Velcro tape
- » Semi bellow pockets on the back with flaps closed by means of Velcro tapes



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)

DARK
BLUE



ROYAL
BLUE

DARK
BLUE



RED

335

Fire-Blocker 200 g/m² 2/1 Twill
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



EN 61482-1-2
Class1(4kA)

DARK
BLUE



ROYAL
BLUE

DARK
BLUE



RED

342

Body-Guard 250 g/m² 2/1 Twill
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-1
ATPV 8,7 cal/cm2



EN ISO 1161
Class 1

DARK
BLUE



ROYAL
BLUE

DARK
BLUE



RED



KIVANÇ
Group



INDUSTAR

ROGER

838167 - Coverall




















www.kivancgroup.com

ROGER | Coverall

Model Details

- » 5 cm silver reflective tapes on shoulders, sleeves and legs
- » Front flap closed by means of a zipper and Velcro tape ①
- » Chest patch pockets with flap closed by zippers
- » Cuf adjustment by means of snap buttons ②
- » Elastic belt ③
- » Slash pockets
- » Left-back patch pocket with flap and right-back patch pocket with flap and zipper
- » Tool pocket with flap on the right side



305	Fire-Blocker 155 g/m ² 1/1 Plain 93% Meta-aramid, 5% Para-aramid, 2% Antistatic	 EN ISO 11612 A1 B1 C1 F1	 EN 1149-3 EN 1149-5	 EN 61482-1-1 ATPV 8,7cal/cm ²	 DARK BLUE	 ROYAL BLUE	 RED			
335	Fire-Blocker 200 g/m ² 2/1 Twill 93% Meta-aramid, 5% Para-aramid, 2% Antistatic	 EN ISO 11612 A1 A2 B1 C1 F1	 EN 1149-3 EN 1149-5	 EN 61482-1-2 ATPV 8,7cal/cm ²	 EN 61482-14ATPV 7,5 cal/cm2	 DARK BLUE	 ROYAL BLUE	 RED	 ORANGE	
342	Body-Guard 250 g/m ² 2/1 Twill 55% Viscose FR, 44% Meta-aramid, 1% Antistatic	 EN ISO 11612 A1 A2 B1 C1 F1	 EN 1149-3 EN 1149-5	 EN 61482-1-2 ATPV 8,7cal/cm ²	 EN ISO 1161 Class 1	 DARK BLUE	 ROYAL BLUE	 RED	 ORANGE	 DARK GREY



KIVANÇ
Group



INDUSTAR
ALBERT

835103 - Antistatic Flame Retardant Rain Coat

www.kivancgroup.com

Model Details

- » Adjustable hood with drawcord ❶
- » Chest patch pockets with flaps ❷
- » Front flap closed by means of a zipper and Velcro tapes
- » High-Visible yellow color
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves and coat hem
- » Throat tab for full protection ❸
- » All seams are seam-sealed to prevent water leakage
- » Flame retardant, antistatic, high-visible (Hi-Vis), waterproof and breathable fabric





KIVANÇ
Group



INDUSTAR
ALBERTO

834112-Antistatic Flame Retardant Suit

www.kivancgroup.com

ALBERTO | Antistatic Flame Retardant Suit

Model Details

JACKET

- » Hidden hood ①
- » Lower pockets with flap closed by Velcro tapes
- » Double front flap closed by means of a zipper and Velcro tapes
- » High-Visible yellow color
- » 5 cm wide reflective tapes on sleeves, chest, back and shoulders ②
- » Elastic cuff adjusted by means of Velcro tapes ③
- » Inner lined jacket

TROUSERS

- » Adjustable suspenders
- » Elastic belt
- » Front flap closed by means of snap button and Velcro tape ④
- » 5 cm wide silver reflective tapes on legs
- » All seams are seam-sealed to prevent water leakage
- » Flame retardant, antistatic, high-visible (Hi-Vis), waterproof and breathable fabric
- » Inner lined trousers



311

High-Vis Polyester FR 250 g/m²
98% FR Polyester, 2% Antistatic with PU Coating



EN ISO 14116
Index 1



EN 1149-3
EN 1149-5



EN 343
Class 3



EN ISO
20471



DARK
BLUE



HIGH-VIS
YELLOW



KIVANÇ
Group



INDUSTAR

LUIS

816158 - Vest

www.kivancgroup.com

LUIS I Vest

Model Details

- » Mobile phone pocket with velcro tape and drag rope for easy removal ①
- » Hem adjustment by means of a Velcro tape and a buckle ②
- » Front part closed by means of zipper and hidden snap buttons
- » Chest patch pockets with flaps closed by means of Velcro tapes
- » 2,5 cm wide segmented silver reflective tapes on chest and back
- » 5 cm wide yellow-silver-yellow reflective tapes on the back
- » Velcro tape above the right chest pocket for name tag
- » 2 Lower pockets with snap buttons and silver reflective piping
- » Cargo pocket on lower left side closed by a snap button



335

Fire-Blocker 200g/m² 2/1 Twill
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



EN 61482-14ATPV
7,5 cal/cm²

DARK
BLUE



ROYAL
BLUE

DARK
BLUE



GREY



KIVANÇ
Group



INDUSTAR

SERGIO

839198 - Shirt

www.kivancgroup.com

SERGIO | Shirt

Model Details

- » Front closure by means of buttons
- » 2 chest pockets with flaps closed by means of Velcro tapes
- » Cuff adjustment by means of buttons 1
- » 2,5 cm wide segmented silver reflective tapes on chest and back
- » Velcro tape above right chest pocket for name tag 2
- » 5 cm wide yellow-silver-yellow reflective tapes on the back



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)

ROYAL
BLUE



DARK
BLUE

RED



DARK
BLUE

345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)

ROYAL
BLUE



ORANGE



KIVANÇ
Group



INDUSTAR
HAWKINS
839199 - Shirt

www.kivancgroup.com

HAWKINS | Shirt

Model Details

- » Front closure by means of hidden buttons
- » 2 chest pockets with flaps closed by means of Velcro tapes ①
- » Cuff adjustment by means of buttons ②
- » Segmented silver reflective tapes on chest and back ③



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)





KIVANÇ
Group



INDUSTAR

RYAN

839197 - Shirt

www.kivancgroup.com

RYAN

|

Shirt

Model Details

- » Cuff adjustment by means of buttons ①
- » Epaulette on sleeves for adjustment
- » Front closure by means of hidden buttons ②
- » 2 chest pockets with flaps closed by means of Velcro tapes ③
- » Velcro tapes for name and blood type tags ③
- » Segmented silver reflective tapes ④



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ROYAL
BLUE



RED

345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



SKY
BLUE



ROYAL
BLUE



ORANGE



KIVANÇ
Group



INDUSTAR

SIMON

839116 - Shirt

www.kivancgroup.com

SIMON | Shirt

Model Details

- » Cellulosic sweat absorbing lining on collar
- » Velcro tapes for name and blood tags on the patch pockets flaps
- » Pen pocket on both sleeves ①
- » 5 cm yellow-silver-yellow reflective tapes on back and sleeves ①
- » Chest patch pockets with flaps closed by snap buttons ②
- » Velcro tape on left sleeve for logo
- » Cuff adjustment by means of Velcro tape ③
- » Radio, flashlight and gas detector loops above the chest pockets
- » Front part closed by means of hidden snap buttons
- » Back yokes for easy and comfortable body movement



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ROYAL
BLUE



RED

345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



SKY
BLUE



ROYAL
BLUE



ORANGE



KIVANÇ
Group



INDUSTAR
BARRY

822143 - Round Collar Sweatshirt

www.kivancgroup.com

BARRY | Round Collar Sweatshirt

Model Details

- » Knitted fleece fabric keeps the user warm and comfortable in cold environment ①
- » Bi-coloured sweatshirt ①
- » Rib knitted collar and cuffs ②
- » Piping in different color ③
- » Adjustable hem by means of drawcord ④



356

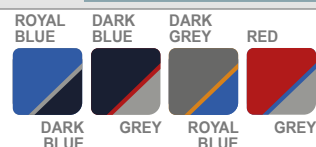
Body-Guard 270 g/m² Knitted Fleece
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C2 F1



EN 1149-3
EN 1149-5





KIVANÇ
Group



INDUSTAR
BENSON

822144 - Straight Collar Sweatshirt

www.kivancgroup.com

BENSON | Straight Collar Sweatshirt

Model Details

- » Knitted fleece fabric keeps the user warm, and comfortable in cold environment
- » Bi-coloured sweatshirt ①
- » Rib knitted collar and cuffs ②
- » Slash pockets ③
- » Hem adjustment by means of drawcord ④ ⑤
- » Front flap closed by means of a zipper and Velcro tape ⑥
- » Straight collar for warm and comfortable use ⑦
- » Piping in different color ⑦



356

Body Guard 270 g/m²

Knitted Fleece

55% Viscose FR, 44% Meta-aramid, 1% Antistatic





KIVANÇ
Group



INDUSTAR

LARRY

822128 - Polo Shirt

www.kivancgroup.com

LARRY | Polo Shirt

Model Details

- » Hidden buttons ①
- » Knitted Polo collar ②
- » Rib knitted cuffs ③
- » Stitched hem
- » Chest pocket with flap closed by means of Velcro tape
- » 100% Aramid sewing thread



351

Body-Guard 220 g/m² Pique
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ROYAL
BLUE



ORANGE

408

Fire-Blocker 190 g/m² Single Jersey
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ROYAL
BLUE



GREY

326

Para Vis 180 g/m² Single Jersey
78% Viscose FR, 20% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



RED



GREY

327

Para Vis 230 g/m² Single Jersey
78% Viscose FR, 20% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



RED



GREY



KIVANÇ
Group



INDUSTAR
DANNY

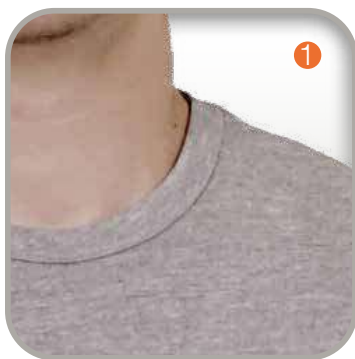
822131 - Round Collar Sweatshirt

www.kivancgroup.com

DANNY | Round Collar Sweatshirt

Model Details

- » Collar made from main fabric ①
- » Cuffs made from main fabric ②
- » Stitched hem
- » 100% Aramid sewing thread



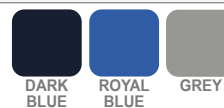
351

Body-Guard 220 g/m² Single Jersey
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



408

Fire-Blocker 190 g/m² Single Jersey
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



326

Para Vis 180 g/m² Single Jersey
78% Viscose FR, 20% Para-Aramid, 2% Antistatic



327

Para Vis 230 g/m² Single Jersey
78% Viscose FR, 20% Para-Aramid, 2% Antistatic



ERIC | Underwear

Model Details

- » Underwear designed to wear inside non-flammable clothing in a cold environment
- » Round collar
- » Long sleeves, long johns
- » Skin-friendly, breathable technical knit
- » 100% Aramid sewing thread



352

MACO-S 220 g/m² Single Jersey
60% Modacrylic, 38% Cotton, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



GREY

408

Fire-Blocker 190 g/m² Interlock
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ECRU



SAGE
GREEN

KIVANÇ
Group



INDUSTAR

ERIC

854106 - Underwear

www.kivancgroup.com

NICK | Hood

Model Details

- » Double Layer Hood
- » Ergonomic design in the form of head and neck
- » Ergonomic face opening
- » Special stitching preventing thickness on sewing area for comfortable skin-friendly wearing
- » 100% Aramid sewing thread



Fire-Blocker 250 g/m²



PBI 170 g/m²



822

Outershell Material

Fire-Blocker 250 g/m² Interlock
93% Meta-aramid, %5 Para-aramid, 2% Antistatic

Inner Lining

Fire-Blocker 250 g/m² Interlock
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN 13911



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-14ATPV
38,9 cal/cm²



DARK
BLUE



ECRU



SAGE
GREEN

915

Outershell Material

PBI 170 g/m²
40% PBI, 58% Para-aramid, 2% Antistatic

Inner Lining

Aramid/Viscose FR 220g/m²
50% Aramid, 50% Viscose FR



EN 13911



GOLD

KIVANC
Group



INDUSTAR

NICK

825105 - Hood

www.kivancgroup.com

Model Details

» Heat and flame resistant antistatic socks with towel sole



Para-Vis Blend

78% Viscose FR, 20% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



GREY

Fire Blocker Blend

93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



DARK
BLUE



SAGE
GREEN

KIVANC
Group



INDUSTAR

LEE

812100 - Socks

www.kivancgroup.com

PROTEK® | Fire Blanket

Model Details

- » Produced in accordance with EN 1869 and DIN 14155 standards
- » Made of non-asbestos glass fiber fabric (boucle type)
- » Standard sizes are 90 x 150 cm, 160 x 180 cm, 100 x 140 cm (Production in different sizes is available upon request)
- » Fire blanket is offered in its original bag (on which user's guide is written on, and can be practically hanged in usage area) for local and industrial use.



Fabric: 107040011 YB W-1600
Boucle type glass fabric 420 g/m² (Ecrú)



KIVANÇ
Group



INDUSTAR
Fire Blanket

www.kivancgroup.com

PROTEK® | Welding Curtain

Model Details

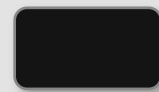
- » Welding blanket made of hybride composite material reinforced with heat resistant glass fiber fabric needle punched to a molten metal splash protective carbon felt from both sides.
- » More durable, lighter and easier to use compared to other welding curtains
- » Standard sizes are 90 x 100 cm, 190 x 100 cm, 190 x 200 cm, 190 x 300 cm, 190 x 400 cm (Different sizes are available upon request)



Fabric: 192062012 CF W-2000

Outer Surface: Carbon (Black)

Reinforcement Layer: Glass Fiber Fabric (white)



BLACK

KIVANC
Group



INDUSTAR
Welding Curtain

www.kivancgroup.com

ARCSTAR

Electric Arc Protection

Protection **YOU** Deserve

Why ARCSTAR?

An electric arc is a continuous or brief electrical discharge with very high current between two conductors at a distance. An electric arc is attended with a very bright light and intensive heat. An electric arc represents a very serious threat because of the risk of severe burns, with potentially fatal consequences, caused by intense heat. The electric arc also generates other potential dangers, for example intense light, a pressure wave, noise or toxic fumes.

People working in the electrical industry place themselves in the line of danger while repairing blown transformers, replacing downed power lines and handling other jobs where high voltage is a constant threat.

Traditional fabrics like cotton or polyester continue burning, melt or drip in case of an electric arc.

ARCSTAR Protective Clothing can protect workers under these and similar situations and can help to reduce the chance of long-term injury or death.

Application Areas

- Electrical Utilities
- Power Distributions
- Power Plants
- Railways
- Engineering Projects
- Refineries
- Shipbuilding
- Automotive Industry

Requirements for protective clothing that protects against electric arcs

Naturally, there are requirements for the protection against the thermal effects of an electric arc. This can, according to the standard, be done in two ways. Depending on the needs of the user one or both of the methods should be applied. The open arc method described in EN 61482-1-1, while the box test falls in the EN 61482-1-2.

The open arc method determines, inter alia, the Arc Thermal Protection Value (ATPV). This must be at least $167,5 \text{ kJ/m}^2$ (4 cal/cm^2). A higher value means better protection. The necessary ATPV value can be determined by a risk analysis.

At the box test, the class is determined depending on the test conditions and the measured thermal protection. Class 1 is the minimum, and thereby corresponds to an arc of 4 kA, for 500 ms and at a distance of 30 cm. The test for Class 2 makes use of a short-circuit current of 7 kA.



KIVANÇ
Group

YOU

ARCSTAR
HENRY

834220 - Jacket & Trousers

www.kivancgroup.com

HENRY | Jacket & Trousers

Model Details

JACKET

- » Front flap closed by means of a zipper and Velcro tapes
- » Chest pocket with flap closed by means of Velcro tapes
- » Name tag on chest pocket flap
- » 2 patch pockets at hem with flap closed by means of Velcro tapes
- » J-Style back bellow for easy movement ①
- » Cuff adjustment with bellow and Velcro tapes ②
- » Hem adjustment by means of Velcro tapes ②
- » Armpit gussets for easy arm movement
- » 5 cm wide silver reflective tapes on chest, back and arms

TROUSERS

- » Slash pockets
- » Bellow cargo pockets on both sides of the legs ③
- » Back pocket on right side with flap closed by means of Velcro tapes
- » Elastic waist and loops ④
- » Trotter adjustment with bellow and Velcro tapes ⑤
- » 5 cm wide silver reflective tapes on legs

ATPV

34
cal/cm²



Outershell Fabric

Fire Blocker 220 g/m² 2/2 Twill
93% Meta aramid, 5% Para aramid, 2% Antistatic

Inner Lining

Fire Blocker 220 g/m² 2/2 Twill
93% Meta aramid, 5% Para aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class2 (7kA)



EN 61482-1-4ATPV
34 cal/cm²



ROYAL
BLUE



DARK
BLUE



KIVANÇ
Group

YOU

ARCSTAR
DEAN

834244 - Jacket & Trousers

www.kivancgroup.com

DEAN

|

Jacket & Trousers

Model Details

JACKET

- » Front flap closed by means of a zipper and Velcro tapes
- » Back bellow for easy movement
- » Cuff adjustment with Velcro tapes
- » Knitted cuff for additional protection ①

TROUSERS

- » Bib trousers with elastic suspenders ②
- » Buckles for suspender height adjustment ②
- » Waist adjustment with buttons and Velcro tapes ③
- » Trotter adjustment by means of Velcro tapes

ATPV**40**
cal/cm²

Outershell Fabric

Fire-Blocker 220 g/m² 2/2 Twill
93% Meta aramid, 5% Para aramid, 2% Antistatic

Heat Barrier

Two layers of Aramid non-woven quilted to
Aramid/Viscose FR inner lining 305 g/m²



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class2 (7kA)



EN 61482-14ATPV
43.4 cal/cm²



DARK
BLUE



KIVANÇ
Group

YOU

ARCSTAR
MARCO

837270 - Jacket & Trousers

www.kivancgroup.com

MARCO | Jacket & Trousers

Model Details

JACKET

- » Comfort-enhancing back bellows ①
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves ①
- » Cuff adjustment by means of a Velcro tape and buckle ②a ②b ②c
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves
- » Silver segmented reflective tape on the back of jacket
- » Hem adjustment by means of a Velcro tape and buckle
- » Chest pockets with flaps closed by means of Velcro tapes
- » Lower welt pockets with flaps ③
- » Front flap closed by means of a zipper and Velcro tapes
- » Interior design with red lines

TROUSERS

- » Semi bellow cargo pockets with flaps closed by Velcro tape ④
- » Ergonomic cut of trousers waist ⑤
- » 5 cm wide yellow-silver-yellow reflective tapes ⑤
- » Elastic belt system ⑥
- » Slash pockets
- » Semi bellow cargo pockets on the back with flaps closed by Velcro tape ⑥
- » Trotter adjustment by means of Velcro tapes and buckle ⑦



335

Fire-Blocker 200g/m² 2/1 Twill
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



EN 61482-1-4ATPV
7,5 cal/cm2

DARK BLUE



DARK BLUE



ROYAL BLUE

GREY



KIVANÇ
Group

YOU

ARCSTAR
ADAM

837275 - Jacket & Trousers

www.kivancgroup.com

ADAM | Jacket & Trousers

Model Details

JACKET

- » Comfort-enhancing J-type back bellows **1a**
- » Elastic tape and tunnel for J-type bellow **1b**
- » Additional piece of fabric on armpit for comfortable movement
- » Cuff adjustment by means of a Velcro tape and buckle **2**
- » 5 cm wide silver reflective tapes on chest and back
- » 3 cm wide silver reflective tapes on sleeves
- » Lower welt pockets
- » Hem adjustment by means of a Velcro tape and buckle
- » Front flap closed by means of a zipper and Velcro tapes
- » Interior design with orange lines



TROUSERS

- » Semi bellow side cargo pockets with silver reflective piping **3**
- » Back pocket on the right with flaps and silver reflective piping **4**
- » Slash pockets
- » Elastic belt system **5**
- » Trotter adjustment by means of Velcro tape and buckle
- » Trousers front closed by means of a zipper and button
- » 3 cm wide silver reflective tapes
- » Bi-coloured trotters **6**



342

Body Guard 250 g/m² 2/1 Twill
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN ISO 11611
Class 1



EN 61482-1-1
8,7 cal/cm²

DARK BLUE



ROYAL BLUE



BLACK



ROYAL BLUE

ORANGE

GREY



KIVANÇ
Group

YOU

ARCSTAR
LUCAS

829257 - Waterproof Jacket

www.kivancgroup.com

LUCAS | Waterproof Jacket

Model Details

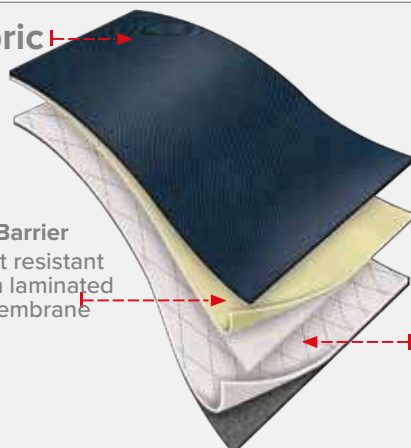
- » Water and windproof hood with drawcord, detachable by means of a zipper ①
- » Jacket has a moisture barrier, all seams are seam-sealed to prevent water leakage
- » Front flap closure by means of a zipper and Velcro tapes
- » Chest patch pockets with flaps closed by means of Velcro tapes ②
- » Velcro tapes to fix name and blood type tags ②
- » Radio, flashlight and gas detector loops above the chest pockets ②
- » Lower patch pockets with flaps
- » 2.5 cm wide segmented silver reflective tapes on chest ②
- » Cuff adjustment by means of Velcro tape ③
- » Pen pockets on both sleeves ④
- » Velcro tape on right sleeve for logo ④
- » Comfort-enhancing back bellows
- » Inner pocket
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves, chest and hem ⑤
- » Adjustable jacket hem by means of Velcro tapes



Outershell Fabric

380 Fire Blocker
220 g/m² 2/2 Twill
93% Meta-aramid,
5% Para-aramid,
2% Antistatic

Moisture Barrier
4000 Heat resistant
nonwoven laminated
to a PU Membrane
90g/m²



Heat Barrier
5003 Aramid felt
quilted to an
Aramid/Viscose FR
inner lining
250 g/m²



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class2(7kA)



DARK
BLUE



ROYAL
BLUE



GREY



RED



KIVANÇ
Group

YOU

ARCSTAR

JASPER

844117 - Trousers

www.kivancgroup.com

JASPER | Trousers

Model Details

- » Slash pockets
- » Patch pockets on both sides of legs with flaps closed by means of Velcro tape¹
- » 2 Patch pockets on back with flaps closed by means of Velcro tapes
- » Elastic waist with loops²
- » Front closure with a zipper and a button
- » 5 cm wide yellow-silver-yellow reflective tapes on legs



380

Fire-Blocker 220g/m² 2/2 Twill
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class 1 (4kA)



EN 61482-1-4 ATPV
12,6 cal/cm²



DARK
BLUE

335

Fire-Blocker 200 g/m² 2/1 Twill
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class 1 (4kA)



EN 61482-1-4 ATPV
7,5 cal/cm²



DARK
BLUE



KIVANÇ
Group

YOU

ARCSTAR

ALEX

838282 - Coverall

www.kivancgroup.com

ALEX | Coverall

Model Details

- » Front flap closed by means of a zipper and Velcro tapes
- » 5 cm wide yellow-silver-yellow reflective tapes on sleeves, back and legs
- » 2,5 cm wide segmented reflective tapes on chest and back
- » 2 Chest pockets with flaps closed by means of Velcro tapes
- » Radio, flashlight and gas detector loops on the chest pockets
- » Pen pocket on right sleeve and velcro tape on left sleeve for logo
- » Comfort-enhancing flexible waist system for easy and comfortable body movement ①
- » Comfort-enhancing J-type back bellows ②
- » Elastic tape and tunnel for J-type bellow ③
- » Cuff adjustment by means of snap buttons ④
- » Slash pockets
- » Semi bellow cargo pocket on right side with flap closed by means of Velcro tape
- » Semi bellow pockets on the back with flaps closed by means of Velcro tapes



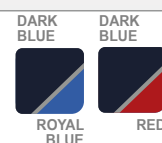
305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



335

Fire-Blocker 200 g/m² 2/1 Twill
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



342

Body-Guard 250 g/m² 2/1 Twill
55% Viscose FR, 44% Meta-aramid, 1% Antistatic





KIVANÇ
Group

YOU

ARCSTAR

DUSTIN

835108 - Overjacket

www.kivancgroup.com

DUSTIN

Model Details

Overjacket

ATPV
25
cal/cm²

- » Right and left flap for better protection in front
- » Front flaps closed by means of a zipper and Velcro tape
- » High collar for better protection
- » Long overjacket will knee
- » Cuff adjustment with Velcro tapes



Outershell Fabric

Fire Blocker 220 g/m² 2/2 Twill
93% Meta aramid, 5% Para aramid, 2% Antistatic

Inner Lining

Fire Blocker 220 g/m² 2/2 Twill
93% Meta aramid, 5% Para aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class 2(7kA)



EN 61482-1-4 ATPV
34 cal/cm²



DARK
BLUE



KIVANÇ
Group

YOU

ARCSTAR

LUIS

816158 - Vest

www.kivancgroup.com

LUIS | Vest

Model Details

- » Mobile phone pocket with velcro tape and drag rope for easy removal ①
- » Hem adjustment by means of a Velcro tape and a buckle ②
- » Front part closed by means of zipper and hidden snap buttons
- » Chest patch pockets with flaps closed by means of Velcro tapes
- » 2,5 cm wide segmented silver reflective tapes on chest and back
- » 5 cm wide yellow-silver-yellow reflective tapes on the back
- » Velcro tape above the right chest pocket for name tag
- » 2 Lower pockets with snap buttons and silver reflective piping
- » Cargo pocket on lower left side closed by a snap button



335

Fire-Blocker 200g/m² 2/1 Twill
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



EN 61482-14ATPV
7,5 cal/cm²

DARK
BLUE



ROYAL
BLUE

DARK
BLUE



GREY



KIVANÇ
Group

YOU

ARCSTAR

SIMON

839116 - Shirt

www.kivancgroup.com

SIMON | Shirt

Model Details

- » Cellulosic sweat absorbing lining on collar
- » Velcro tapes for name and blood tags on the patch pockets flaps
- » Pen pocket on both sleeves ①
- » 5 cm yellow-silver-yellow reflective tapes on back and sleeves ①
- » Chest patch pockets with flaps closed by snap buttons ②
- » Velcro tape on left sleeve for logo
- » Cuff adjustment by means of Velcro tape ③
- » Radio, flashlight and gas detector loops above the chest pockets
- » Front part closed by means of hidden snap buttons
- » Back yokes for easy and comfortable body movement



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ROYAL
BLUE



RED

345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



SKY
BLUE



ROYAL
BLUE



ORANGE



KIVANÇ
Group

YOU

ARCSTAR

BRICE

839114 - Shirt

www.kivancgroup.com

BRICE | Shirt

Model Details

- » Front closure by means of hidden buttons ①
- » 2 chest pockets with flaps closed by means of Velcro tapes ①
- » Cuff adjustment by means of buttons
- » Elbow reinforcements with contrast color ②



345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



ROYAL
BLUE



ORANGE



SKY
BLUE

305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



ROYAL
BLUE



RED



DARK
BLUE



BLACK



KIVANÇ
Group

YOU

ARCSTAR
HAWKINS
839199 - Shirt

www.kivancgroup.com

HAWKINS | Shirt

Model Details

- » Front closure by means of hidden buttons
- » 2 chest pockets with flaps closed by means of Velcro tapes ①
- » Cuff adjustment by means of buttons ②
- » Segmented silver reflective tapes on chest and back ③



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



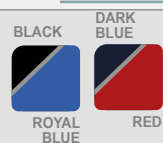
EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)





KIVANÇ
Group

YOU

ARCSTAR

RYAN

839197 - Shirt

www.kivancgroup.com

RYAN

Shirt

Model Details

- » Cuff adjustment by means of buttons ①
- » Epaulette on sleeves for adjustment
- » Front closure by means of hidden buttons ②
- » 2 chest pockets with flaps closed by means of Velcro tapes ③
- » Velcro tapes for name and blood type tags ③
- » Segmented silver reflective tapes ④



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ROYAL
BLUE



RED

345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



SKY
BLUE



ROYAL
BLUE



ORANGE



KIVANC
Group

YOU

ARCSTAR

SERGIO

839198 - Shirt

www.kivancgroup.com

SERGIO | Shirt

Model Details

- » Front closure by means of buttons
- » 2 chest pockets with flaps closed by means of Velcro tapes
- » Cuff adjustment by means of buttons 1
- » 2,5 cm wide segmented silver reflective tapes on chest and back
- » Velcro tape above right chest pocket for name tag 2
- » 5 cm wide yellow-silver-yellow reflective tapes on the back



305

Fire-Blocker 155 g/m² 1/1 Plain
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)

ROYAL
BLUE



DARK
BLUE

RED



DARK
BLUE

345

Body Guard 160 g/m² 1/1 Plain
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)

ROYAL
BLUE



ORANGE



KIVANÇ
Group

YOU

ARCSTAR
DANNY

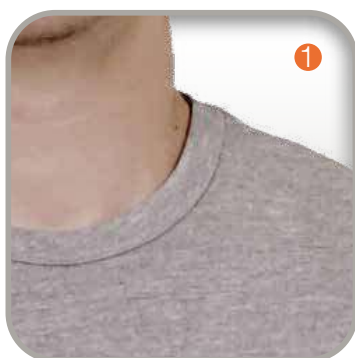
822131 - Round Collar Sweatshirt

www.kivancgroup.com

DANNY | Round Collar Sweatshirt

Model Details

- » Collar made from main fabric ①
- » Cuffs made from main fabric ②
- » Stitched hem
- » 100% Aramid sewing thread



351

Body-Guard 220 g/m² Single Jersey
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ROYAL
BLUE



ORANGE

408

Fire-Blocker 190 g/m² Single Jersey
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ROYAL
BLUE



GREY

326

Para Vis 180 g/m² Single Jersey
78% Viscose FR, 20% Para-Aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



GREY

327

Para Vis 230 g/m² Single Jersey
78% Viscose FR, 20% Para-Aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



RED



GREY



KIVANÇ
Group

YOU

ARCSTAR
LARRY

822128 - Polo Shirt

www.kivancgroup.com

LARRY | Polo Shirt

Model Details

- » Hidden buttons ①
- » Knitted Polo collar ②
- » Rib knitted cuffs ③
- » Stitched hem
- » Chest pocket with flap closed by means of Velcro tape
- » 100% Aramid sewing thread



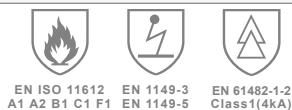
351

Body-Guard 220 g/m² Pique
55% Viscose FR, 44% Meta-aramid, 1% Antistatic



408

Fire-Blocker 190 g/m² Single Jersey
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



326

Para Vis 180 g/m² Single Jersey
78% Viscose FR, 20% Para-aramid, 2% Antistatic



327

Para Vis 230 g/m² Single Jersey
78% Viscose FR, 20% Para-aramid, 2% Antistatic



ERIC | Underwear

Model Details

- » Underwear designed to wear inside non-flammable clothing in a cold environment
- » Round collar
- » Long sleeves, long johns
- » Skin-friendly, breathable technical knit
- » 100% Aramid sewing thread



352

MACO-S 220 g/m² Single Jersey
60% Modacrylic, 38% Cotton, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



GREY

408

Fire-Blocker 190 g/m² Interlock
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class1(4kA)



DARK
BLUE



ECRU



SAGE
GREEN

KIVANC
Group



ARCSTAR

ERIC

854106 - Underwear

www.kivancgroup.com

NICK | Hood

Model Details

- » Double Layer Hood
- » Ergonomic design in the form of head and neck
- » Ergonomic face opening
- » Special stitching preventing thickness on sewing area for comfortable skin-friendly wearing
- » 100% Aramid sewing thread



Fire-Blocker 250 g/m²

PBI 170 g/m²

Outershell Material

Fire-Blocker 250 g/m² Interlock
93% Meta-aramid, %5 Para-aramid, 2% Antistatic

Inner Lining

Fire-Blocker 250 g/m² Interlock
93% Meta-aramid, 5% Para-aramid, 2% Antistatic



EN 13911



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-14 ATPV
38,9 cal/cm²



DARK
BLUE



ECRU



SAGE
GREEN

Outershell Material

PBI 170 g/m²
40% PBI, 58% Para-aramid, 2% Antistatic

Inner Lining

Aramid/Viscose FR 220g/m²
50% Aramid, 50% Viscose FR



EN 13911



GOLD

KIVANC
Group

YOU

ARCSTAR

NICK

825105 - Hood

www.kivancgroup.com



KIVANÇ
Group

YOU

ARCSTAR

LUKE

827119 - Hood

www.kivancgroup.com

LUKE**I****Hood****Model Details**

- » Replaceable Visor by means of Velcro tapes
- » Cap connected to the hood by means of Velcro tapes
- » Long front part for better protection
- » Visor could be protected when not in use by folding the front part and fixing with Velcro tape ①
- » This hood is certified according to EN 166, EN 170 and GS-ET-29 Class 2
- » Visor ATPV - 25 cal/cm²
- » Fabric ATPV - 34 cal/cm²

ATPV
25
cal/cm²**Outershell Fabric**

Fire Blocker 220 g/m² 2/2 Twill
93% Meta aramid, 5% Para aramid, 2% Antistatic

Inner Lining

Fire Blocker 220 g/m² 2/2 Twill
93% Meta aramid, 5% Para aramid, 2% Antistatic



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class2 (7kA)



EN 61482-14ATPV
34 cal/cm²



**DARK
BLUE**



KIVANC
Group

YOU

ARCSTAR
LEO

827110 - Hood

www.kivancgroup.com

LEO | Hood

Model Details

- » Replaceable Visor by means of Velcro tapes
- » 3M H700 helmet connected to the hood by means of Velcro tapes
- » Long front part for better protection
- » Ergonomic design covering the head, throat and shoulder area
- » This hood is certified according to EN 166, EN 170 and GS-ET-29 Class 2
- » Visor ATPV - 40 cal/cm²
- » Fabric ATPV - 43.4 cal/cm²

ATPV
40
cal/cm²



Outershell Fabric

Fire-Blocker 220 g/m² 2/2 Twill
93% Meta aramid, 5% Para aramid, 2% Antistatic

Heat Barrier

Two layers of Aramid non-woven quilted to
Aramid/Viscose FR inner lining 305 g/m²



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-1-2
Class2 (7kA)



EN 61482-14ATPV
43.4 cal/cm²



DARK
BLUE

RONALD

Gloves

ATPV

40
cal/cm²



935

Outershell Fabric

Fire-Blocker 220 g/m² 2/2 Twill

93% Meta aramid, 5% Para aramid, 2% Antistatic

Heat Barrier

Two layer of Aramid non-woven quilted to Aramid/Viscose FR inner lining 305 g/m²



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 388 Level 4



EN 61482-1-1
ATPV 43.4 cal/cm²



DARK
BLUE

KIVANC
Group

YOU

ARCSTAR

RONALD

805101 - Gloves

www.kivancgroup.com

RUSSELL

Gloves



846

Fire-Blocker 220 g/m² 2/2 Twill Double Layer
93% Meta aramid, 5% Para aramid, 2% Antistatic
100% Leather



EN ISO 11612
A1 A2 B1 C1 F1



EN 388 Level 3



EN 61482-1-2
Class1

DARK
BLUE



GREY

KIVANÇ
Group

YOU

ARCSTAR

RUSSELL

805106 - Gloves

www.kivancgroup.com

HARVIK 9726

Boots

Model Details

- » Harvik 9726 Dielectric Safety Boots
- » Vulcanized Rubber Upper and Sole
- » For working environment with high voltage hazards



EN 50321 : 1999
Class 0

Certification:
CE 0321 EN ISO 20345:2011
SB E FO HRO SRA

YELLOW



GREEN

KIVANC
Group

YOU

ARCSTAR
HARVIK 9726
Boots

www.kivancgroup.com

ARC GOGGLES

Model Details

- » High Performance Arc Goggle with nose shield for electricians designed to specifically address the requirements of Arc Flash Protection
- » Black frame, blue bezel, green lens
- » Weight of 205 g
- » Two options available
 - o ATPV 12 cal/cm² (Silicone frame and strap, Polycarbonate lens, Polymer alloy components)
 - o ATPV 38 cal/cm² (Silicone frame and strap, Polycarbonate outer lens and propionate inner lens, Polymer alloy components)

ATPV

12
cal/cm²

ATPV

38
cal/cm²



STANDARD: ANSI Z87.1, ASTM F2178



KIVANÇ
Group

YOU

ARCSTAR
PAULSON
Arc Goggles

www.kivancgroup.com

VISOR

Model Details

Face shield kit options with green color, made of polycarbonate, with 18,4 x 50,8 x 0,15 cm window size and complying with EN 166, ANSI Z87.1, GS-ET-29 (Class 2), ASTM F2178, NFPA 70E standards

ATPV

12
cal/cm²

WEIGHT

334 g



AMP1-E12-PCT

Face Shield kit with large transparent, ergonomically shaped chin protector. Includes cap bracket with EURO clips.

ATPV

25
cal/cm²

WEIGHT

369 g



ARC-E-25-S2K1-PCT

Face Shield kit with large chin protector. Includes helmet bracket with EURO clips.

ATPV

25
cal/cm²

WEIGHT

383 g



ARC-E-25-S2K2

Face Shield kit with large transparent chin protector. Includes helmet bracket with elastomeric band.

ATPV

12
cal/cm²

WEIGHT

369 g



ARC-PCE-12-S2K1-PCT

Face Shield kit with large chin protector. Includes cap bracket with EURO clips.

ATPV

12
cal/cm²

WEIGHT

383 g



ARC-PCE-12-S2K2

Face Shield kit with large transparent chin protector. Includes helmet bracket with elastomeric band.

KIVANC
Group

YOU

ARCSTAR
PAULSON
Visor

www.kivancgroup.com

VISOR

Model Details

Face shield kit options with clear color, made of polycarbonate, with 20 x 39 cm window size and complying with EN 166, ANSI Z87.1, GS-ET-29 (Class 1) standards

WEIGHT
312 g



ARC-E-1-SK1-PCT

Face Shield kit with includes cap bracket with EURO clips.

WEIGHT
328 g



ARC-E-1-SK2

Face Shield kit with large includes cap bracket with elastomeric band.

WEIGHT
400 g



ARC-E-1-SK7

Face Shield kit includes large headgear.

HELMET WITH VISOR



SECRA-1

Model Details

- » Electrically Insulating Safety Helmet With Integrated Face Shield Class 1
- » Available in two versions, made of polyamide or ABS
- » Additionally equipped with a face shield with visor made of polycarbonate with a thickness of 1.5 mm
- » Available with transparent visor and white, yellow, red or green shell
- » EN 397:2012+A1:2012, EN 50365:2002, EN 166:2001, GS-ET-29:2011, ANSI/ISEA Z89.1:2014



SECRA-2

Model Details

- » Electrically Insulating Safety Helmet With Integrated Face Shield Class 2
- » Helmet available in two versions, made of polyamide or ABS, additionally equipped with a face shield with visor made of polycarbonate with a thickness of 1.7 mm
- » Available with transparent green visor and white, yellow, red or green shell
- » EN 397:2012+A1:2012, EN 50365:2002, EN 166:2001, GS-ET-29:2011, ANSI/ISEA Z89.1:2014



KIVANC
Group



ARCSTAR
TED

890123 - Aramid Belt

www.kivancgroup.com

METALSTAR

Molten Metal Splash Protection



Protection **YOU** Deserve

Why METALSTAR?

The process of combining metals with pressure, heat, flame or electric arc is called welding. Welding work is a safe occupation if adequate measures are taken against potential hazards. If these measures are ignored, welders may be exposed to sparks, molten metal splashes, radiation, heat, hot metal, smoke, gas and even electric shock.

Welders should wear a garment that protects them from injury, such as firemen or many other occupational groups. The most common of all injuries is burns which are formed by bare spattering of sparks. Severe burns occur when the very intense arc of contact touches the skin for a short period of time.

Molten metal splash like in an iron & steel company may be very dangerous. Molten metal may stick on the outer fabric of the workwear and burn the skin of the person which may lead to severe injuries. Traditional fabrics like cotton or polyester start burning, melting or dripping during welding or molten metal splashes which increases the body burn.

METALSTAR Protective Clothing provides permanent flame resistance; does not melt, ignite and continue burning; insulates the wearer from heat and decreased/avoid heat burns; provide time to escape; increases the chance of survival.

Application Areas

- Iron & Steel Industry
- Automotive Industry
- Engineering Projects
- Foundries
- Railways
- Shipbuilding
- Welding

ISO 11612 Heat & Flame Protection:

The purpose of this standard is to provide minimum performance requirements for clothing to protect against heat and flame. Within many of hazards listed in this standard there are three performance levels (except Radiant Heat where there are 4 Levels). Level 1 indicates exposure to perceived low risk, Level 2 indicates exposure to perceived medium risk and Level 3 indicates exposure to perceived high risk.

- Code A: Limited Flame Spread (A1, A2)
- Code B: Convective Heat (B1, B2, B3)
- Code C: Radiant Heat (C1, C2, C3, C4)
- Code D: Molten Aluminum (D1, D2, D3)
- Code E: Molten Iron (E1, E2, E3)
- Code F: Contact Heat (F1, F2, F3)

ISO 11611 Heat & Flame Protection:

ISO 11611 specifies minimum basic safety requirements and test methods for protective clothing including hoods, aprons, sleeves and gaiters that are designed to protect the wearer's body including head (hoods) and feet (gaiters) and that are to be worn during welding and allied processes with comparable risks.

ISO 11611 specifies two classes with specific performance requirements, i.e. Class 1 being the lower level and Class 2 the higher level.

Class 1 is protection against less hazardous welding techniques and situations, causing lower levels of spatter and radiant heat.

Class 2 is protection against more hazardous welding techniques and situations, causing higher levels of spatter and radiant heat.



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Group



METALSTAR

KELVIN

837277 - Jacket & Trousers

www.kivancgroup.com

KELVIN | Jacket & Trousers

Model Details

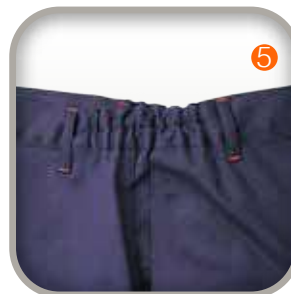
JACKET

- » Overlapped seam to allow the molten metal splash to flow from the fabric surface
- » Comfort-enhancing back bellows ①
- » Additional piece of fabric on armpit for comfortable movement
- » Inclined chest pockets with flaps closed by means of Velcro tape
- » Jacket closed by means of a front zipper and Velcro tapes
- » Additional flap under zipper ②
- » Cuff adjustment by means of snap buttons ③
- » Interior design with grey lines ④
- » Silver reflective tapes on sleeves and jacket hem



TROUSERS

- » Slash pockets
- » Elastic belt system ⑤
- » Trotter adjustment by means of snap buttons ⑥
- » Front closure with a zipper and button
- » Silver reflective tapes on both legs



329

Proban 335 g/m² 4/1 Sateen
99% FR Cotton, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
E2 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 1

DARK
BLUE



ROYAL
BLUE

ROYAL
BLUE



RED

DARK
BLUE



RED

BLACK



GREY

363

Heavy Metal 330 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2

DARK
BLUE



ROYAL
BLUE

SKY
BLUE



DARK
BLUE

GREY



DARK
BLUE

310

Heavy Metal 375 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2

DARK
BLUE



ROYAL
BLUE

SKY
BLUE



DARK
BLUE

GREY



DARK
BLUE



KIVANÇ
Group



METALSTAR

AXIS

837113 - Jacket & Trousers

www.kivancgroup.com

AXIS | Jacket & Trousers

Model Details

JACKET

- » Overlapped seams to allow molten metal splash to flow from the fabric surface
- » Comfort-enhancing back bellows
- » Chest pockets with flaps closed by means of Velcro tapes
- » Front flap closed by means of a zipper and Velcro tapes
- » Cuff adjustment by means of snap buttons

TROUSERS

- » Slash pockets
- » Elastic belt system
- » Adjustable trotters by means of snap buttons
- » Front closure with a zipper and a button



329

Proban 335 g/m² 4/1 Sateen
99% FR Cotton, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
E2 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 1



DARK
BLUE



ROYAL
BLUE

363

Heavy Metal 330 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2



DARK
BLUE



ROYAL
BLUE



SKY
BLUE

310

Heavy Metal 375 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2



DARK
BLUE



ROYAL
BLUE



SKY
BLUE



KIVANÇ
Group



METALSTAR
TRAVIS

834188 - Jacket & Trousers

www.kivancgroup.com

TRAVIS | Jacket & Trousers

Model Details

JACKET

- » Overlapped seam to allow the molten metal splash to flow from the fabric surface
- » Comfort-enhancing back bellows
- » Chest pockets with flaps closed by means of snap buttons
- » Radio, flashlight and gas detector loops above the chest pockets
- » Velcro tape on right chest pocket flap for name tag
- » Pen pockets on both sleeves
- » Jacket closed by means of a front zipper and snap buttons
- » Cuff and hem adjustment by means of snap buttons
- » 5 cm wide red-silver-red reflective tapes on back

TROUSERS

- » Slash pockets
- » Elastic belt system
- » Front closure with a zipper and button
- » Side cargo pockets with flaps closed by means of snap buttons
- » Cargo pockets on the back with flaps closed by snap buttons



875

Outershell Material

363 Heavy Matal 330 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid , 1% Antistatic

Inner Lining

6000 Aramid/Viscose FR
120 g/m²



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2



DARK
BLUE



KIVANÇ
Group



METALSTAR

CASE

838101 - Coverall

www.kivancgroup.com

CASE | Overall

Model Details

- » Overlapped seams to allow molten metal splash to flow from the fabric surface
- » Comfort-enhancing back bellows
- » Chest pocket with flap closed by means of snap buttons
- » Slash pockets
- » Side pocket with flap closed by snap buttons
- » Back pocket with flap
- » Front flap closed by means of snap buttons for quick removal
- » Elastic waist adjustment by means of a button
- » Cuff adjustment by means of snap buttons



329

Proban 335 g/m² 4/1 Sateen
99% FR Cotton, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
E2 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 1



DARK
BLUE



ROYAL
BLUE

363

Heavy Metal 330 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2



DARK
BLUE



ROYAL
BLUE



SKY
BLUE

310

Heavy Metal 375 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2



DARK
BLUE



ROYAL
BLUE



SKY
BLUE



KIVANÇ
Group



METALSTAR

LEROY

827122 - Hood

www.kivancgroup.com

Model Details

- » Overlapped seams to allow the molten metal splash to flow from the hood surface
- » Hood closed by means of Velcro tape
- » Hood protects the head, face and neck against fire and harmful effects of heat and molten metal splashes



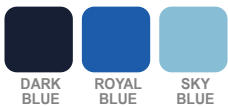
329

Proban 335g/m² 4/1 Sateen
 99% FR Cotton, 1% Antistatic



363

Heavy Metal 330g/m² Double Face
 54% Viscose FR, 20% Wool, 20% Polyamide
 5% Aramid, 1% Antistatic



310

Heavy Metal 375g/m² Double Face
 54% Viscose FR, 20% Wool, 20% Polyamide
 5% Aramid, 1% Antistatic



VINCE | Arm Protector



875

Outershell Material

363 Heavy Matal 330 g/m² Double Face
54% Viscose FR, 20% Wool, 20% Polyamide
5% Aramid , 1% Antistatic

Inner Lining

6000 Aramid/Viscose FR
120 g/m²



EN ISO 11612
A1 B1 C1 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 2



DARK
BLUE

KIVANC
Group



METALSTAR

VINCE

819101 - Arm Protector

www.kivancgroup.com



329

Proban 335g/m² 4/1 Sateen
99% FR Cotton, 1% Antistatic



EN ISO 11612
A1 A2 B1 C1
E2 F1



EN 1149-3
EN 1149-5



EN ISO 1161
Class 1



DARK
BLUE



ROYAL
BLUE

KIVANC
Group



METALSTAR

VINCENT

817116- Gaiters

Model Details

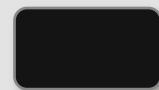
- » Welding blanket made of hybride composite material reinforced with heat resistant glass fiber fabric needle punched to a molten metal splash protective carbon felt from both sides.
- » More durable, lighter and easier to use compared to other welding curtains
- » Standard sizes are 90 x 100 cm, 190 x 100 cm, 190 x 200 cm, 190 x 300 cm, 190 x 400 cm
(Different sizes are available upon request)



Fabric: 192062012 CF W-2000

Outer Surface: Carbon (Black)

Reinforcement Layer: Glass Fiber Fabric (white)



BLACK

911C | Helmet

Model Details

- » The Bullard Model 911C is a cap-style hard hat designed specifically for high heat applications.
- » It is offered with the option of either a pinlock or ratchet suspension featuring a replaceable, padded cotton brow pad.
- » The suspension system has six points of attachment with six separate keys for a secure fit and 1" wide crown straps for comfort.
- » Weight (with suspension): 425g
- » ANSI/ISEA Classification: Z89.1-2014, Type I, Class E and G
- » Thermoplastic shell - has higher heat resistance than polyethylene.



Outershell Material
Thermoplastic



KIVANC
Group



METALSTAR
911C
Helmet

www.kivancgroup.com

REFSTAR

Radiant Heat Protection



Protection **YOU** Deserve

Why REFSTAR?

People working in front of high temperatures like iron&steel or glass industry are exposed to high radiant heat which may cause injuries. Non-FR products like cotton or polyester may catch fire. High radiant heat also restricts working conditions.

REFSTAR protective clothing is designed to reflect the radiant heat ensuring people to work more comfortably and safely.

REFSTAR protective clothing should be worn on other protective garments to ensure an additional protection. They should be used as complementary equipment to current protective clothing, not instead of those.

REFSTAR garments are tested and certified according to ISO 11612 standard. Radiant Heat Transfer value of aluminized garments are much higher compared to woven protective fabrics. Radiant Heat Transfer Index is called C according to ISO 11612. There are 4 levels. C1 is the lowest protection level and C4 is the highest protection level.

Application Areas

- Airport Personnel
- Aluminium Workers
- Automotive Industry
- Cement Industry
- Ceramic Industry
- Railways
- Glass Industry
- Iron & Steel Industry
- Shipbuilding
- Welding

Aluminized garments also give protection against molten metal splashes. Molten Aluminium Splash is Index D and Molten Iron Splash is Index E where D1 and E1 are the lowest protection level and D3 and E3 are the highest protection level.

KIVANC
Group

YOU

REFSTAR

www.kivancgroup.com



KIVANÇ
Group



REFSTAR

ALUSTAR ULTRA LIGHT

830100 - Aluminized Suit

www.kivancgroup.com

ALUSTAR ULTRA LIGHT | Aluminized Suit

Model Details

- » This suit is designed to protect the wearer against high radiant, convective and contact heat.
- » The set contains the following items
 - » Jacket with back space for covering SCBA cylinders
 - » Trousers
 - » Shroud with gold coated visor and EN 397 certified helmet
 - » Gloves
 - » Gaiters with EN 15090 certified rubber boots
 - » Carrying bag
- » This suit may be used in
 - » proximity firefighting
 - » front or inside ovens during maintenance
 - » glass or iron&steel industries in front of molten glass or metals
 - » areas where there is high radiant heat



827100 - Wolf Shroud



805100 - Tyler Gloves



817100 - Harvey Gaiters

Outershell

378 ADK 290
290 g/m²

Aluminized knitted para-aramid
fabric with Dual Mirror Technology

Moisture Barrier
4000 Heat Resistant
nonwoven
laminated to a
PU Membran

Heat Barrier
5004 Two layers of aramid
felt quilted to an
Aramid/Viscose FR
inner lining



EN 1486



KIVANÇ
Group



REFSTAR
ALUSTAR

830102 - Aluminized Suit

www.kivancgroup.com

Model Details

- » This suit is designed to protect the wearer against high radiant, convective and contact heat.
- » The set contains the following items
 - » Jacket with back space for covering SCBA cylinders
 - » Trousers
 - » Shroud with gold coated visor and EN 397 certified helmet
 - » Gloves
 - » Gaiters with EN 15090 certified rubber boots
 - » Carrying bag
- » This suit may be used in
 - » proximity firefighting
 - » front or inside ovens during maintenance
 - » glass or iron&steel industries in front of molten glass or metals
 - » areas where there is high radiant heat



827100 - Wolf Shroud



805100 - Tyler Gloves

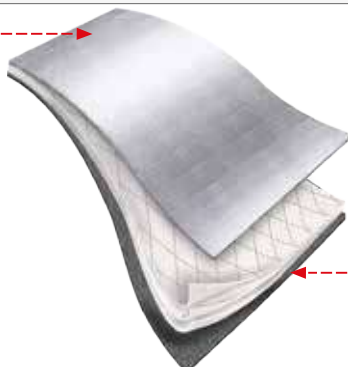


817101 - Curtis Gaiters

Outershell

304 APC 500
500 g/m²

Aluminized Glass Fabric with
Double Reflection Tehnology

**Heat Barrier**

5005 Three layers of aramid
felt quilted to an
Aramid/Viscose FR
inner lining



EN 1486



378

ADK 290 g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology



EN ISO 11612
A1 A2 B1 C4 D2 E2 F1



302

ADK 460 g/m²

Aluminized woven para-aramid with Transfer Foil Technology



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1



KIVANÇ
Group













REFSTAR

FELIX

837114 - Jacket & Trousers

www.kivancgroup.com



<div>378</div> <div>FRONT FABRIC</div> <div>ADK 290 g/m²</div> <div>Aluminized knitted para-aramid fabric with Dual Mirror Technology</div> <div>BACK FABRIC</div> <div>Heavy-Metal 330 g/m² Double Face</div> <div>54% Viscose FR, 20% Wool, 20% Polyamid</div> <div>5% Aramid, 1% Antistatic</div>	<div>  EN ISO 11612 A1 A2 B1 C4 D2 E2 F1 </div> <div>  EN ISO 11612 A1 A2 B1 C1 D3 E3 F1 </div> <div>  EN 1149-3 EN 1149-5 </div> <div>  EN ISO 11611 Class 2 </div> <div>  DARK BLUE </div>
<div>302</div> <div>FRONT FABRIC</div> <div>ADK 460 g/m²</div> <div>Aluminized woven para-aramid fabric</div> <div>BACK FABRIC</div> <div>Heavy-Metal 330 g/m² Double Face</div> <div>54% Viscose FR, 20% Wool, 20% Polyamid</div> <div>5% Aramid, 1% Antistatic</div>	<div>  EN ISO 11612 A1 A2 B1 C3 D3 E3 F1 </div> <div>  EN ISO 11612 A1 A2 B1 C1 D3 E3 F1 </div> <div>  EN 1149-3 EN 1149-5 </div> <div>  EN ISO 11611 Class 2 </div> <div>  DARK BLUE </div>

KIVANC
Group



REFSTAR
GLEEN

837157 - Jacket & Trousers

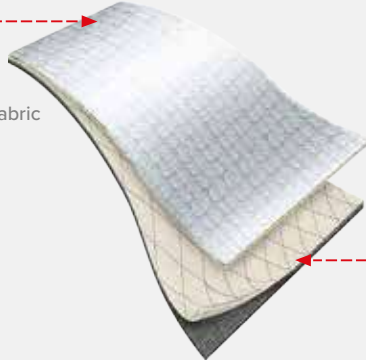
www.kivancgroup.com



Outershell

378 ADK 290
290 g/m²

Aluminized knitted para-aramid fabric
with Dual Mirror Technology



Heat Barrier

5003 Heat and flame
resistant non-woven
quilted to
Aramid/Viscose FR
inner lining
250 g/m²



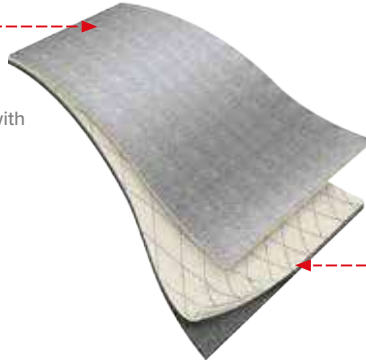
EN ISO 11612
A1 A2 B1 C4 D2 E2 F1

819

Outershell

302 ADK 460
460 g/m²

Aluminized woven para-aramid with
Transfer Foil Technology



Heat Barrier

5003 Heat and flame
resistant non-woven
quilted to
Aramid/Viscose FR
inner lining
250 g/m²



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1

879

KIVANC
Group



REFSTAR
CLIFF

834109 - Jacket & Trousers

www.kivancgroup.com



378

ADK 290g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology



EN ISO 11612
A1 A2 B1 C4 D2 E2 F1



302

ADK 460g/m²

Aluminized woven para-aramid with Transfer Foil Technology



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1



KIVANÇ
Group



REFSTAR

BRUNO

835105 - Overjacket

www.kivancgroup.com



378

FRONT FABRIC

ADK 290 g/m²

Aluminized knitted para-aramid fabric with
Dual Mirror Technology

BACK FABRIC

Heavy-Metal 330 g/m² Double Face

54% Viscose FR, 20% Wool, 20% Polyamid
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C4 D2 E2 F1



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 11611
Class 2



DARK
BLUE

363

302

FRONT FABRIC

ADK 460 g/m²

Aluminized woven para-aramid fabric

BACK FABRIC

Heavy-Metal 330 g/m² Double Face

54% Viscose FR, 20% Wool, 20% Polyamid
5% Aramid, 1% Antistatic



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1



EN ISO 11612
A1 A2 B1 C1
D3 E3 F1



EN 1149-3
EN 1149-5



EN ISO 11611
Class 2



DARK
BLUE

KIVANC
Group

YOU

REFSTAR

DREW

835101 - Overjacket

www.kivancgroup.com



378

ADK 290 g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology



EN ISO 11612
A1 A2 B1 C4 D2 E2 F1



302

ADK 460 g/m²

Aluminized woven para-aramid with Transfer Foil Technology



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1



KIVANÇ
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REFSTAR

MELVIN

818102 - Apron



378

ADK 290g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology



EN ISO 11612
A1 A2 B1 C4 D2 E2 F1



302

ADK 460g/m²

Aluminized woven para-aramid with Transfer Foil Technology



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1



KIVANÇ
Group



www.kivancgroup.com

REFSTAR

TROY

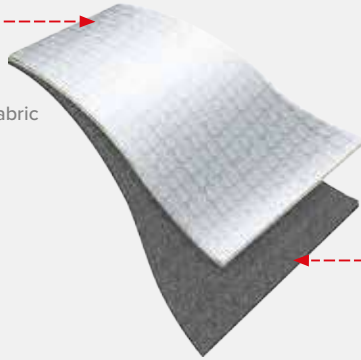
818103 - Apron



Outershell

378 ADK 290
290 g/m²

Aluminized knitted para-aramid fabric
with Dual Mirror Technology



Inner Lining
6000 Aramid/Viscose FR
120 g/m²



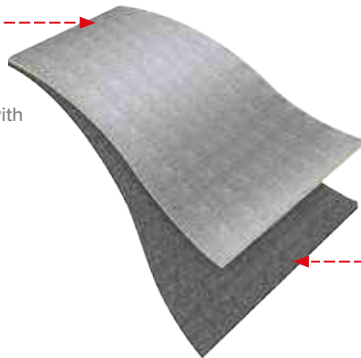
EN ISO 11612
A1 A2 B1 C4 D2 E2 F1

825

Outershell

302 ADK 460
460 g/m²

Aluminized woven para-aramid with
Transfer Foil Technology



Inner Lining
6000 Aramid/Viscose FR
120 g/m²



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1

839

KIVANC
Group



REFSTAR

COOPER

818112 - Poncho

www.kivancgroup.com



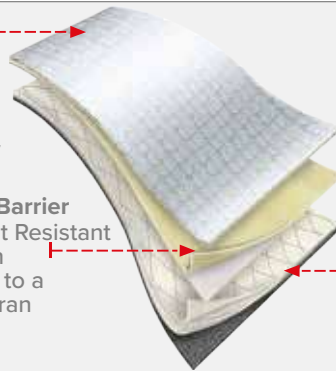
- » Gold coated polycarbonate visor
- » Glass fiber reinforced visor frame
- » 3M H700 helmet fixed to the shroud by means of Velcro tapes

Outershell

378 ADK 290
290 g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology

Moisture Barrier
4000 Heat Resistant nonwoven laminated to a PU Membran



Heat Barrier
5004 Two layers of aramid felt quilted to an Aramid/Viscose FR inner lining



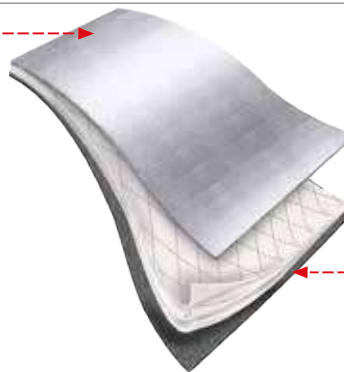
EN 1486

002

Outershell

304 APC 500
500 g/m²

Aluminized Glass Fabric with Double Reflection Tehnology



Heat Barrier
5005 Three layers of aramid felt quilted to an Aramid/Viscose FR inner lining



EN 1486

003

KIVANC
Group

YOU

REFSTAR

WOLF

827100 - Shroud

www.kivancgroup.com



- » Gold coated polycarbonate visor
- » Glass fiber reinforced visor frame
- » Bullard 911 CR helmet fixed to the shroud by means of Velcro tapes

378

ADK 290g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology



EN ISO 11612
A1 A2 B1 C4 D2 E2 F1



302

ADK 460g/m²

Aluminized woven para-aramid with Transfer Foil Technology



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1



KIVANC
Group



REFSTAR

PAUL

827103 - Shroud

www.kivancgroup.com



378

ADK 290g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology



EN ISO 11612
A1 A2 B1 C4 D2 E2 F1



302

ADK 460g/m²

Aluminized woven para-aramid with Transfer Foil Technology



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1



KIVANÇ
Group



REFSTAR

JACK

827101 - Hood

www.kivancgroup.com



Outershell

378 ADK 290
290 g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology

Moisture Barrier
4000 Heat Resistant nonwoven laminated to a PU Membran

Heat Barrier
5004 Two layers of aramid felt quilted to an Aramid/Viscose FR inner lining



EN 1486

Outershell

304 APC 500
500 g/m²

Aluminized Glass Fabric with Double Reflection Technology

Heat Barrier
5005 Three layers of aramid felt quilted to an Aramid/Viscose FR inner lining



EN 1486

KIVANC
Group

YOU

REFSTAR

TYLER

805100 - Gloves

www.kivancgroup.com



Outershell

302 ADK 460

460 g/m²

Aluminized woven para-aramid with Transfer Foil Technology



EN 407
433444



Inner Lining

Heat Resistant Fleece

939

KIVANC
Group



REFSTAR

TERRY

805105 - Gloves

www.kivancgroup.com

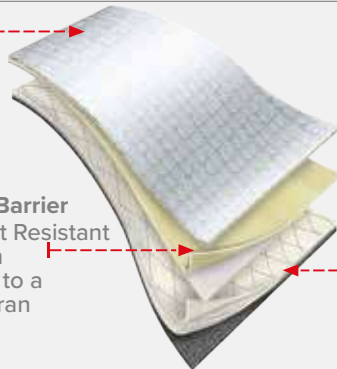


Outershell

378 ADK 290
290 g/m²

Aluminized knitted para-aramid
fabric with Dual Mirror Technology

Moisture Barrier
4000 Heat Resistant
nonwoven
laminated to a
PU Membran



Heat Barrier
5004 Two layers of aramid
felt quilted to an
Aramid/Viscose FR
inner lining



EN 1486

002

KIVANC
Group



REFSTAR
HARVEY

817100 - Gaiters

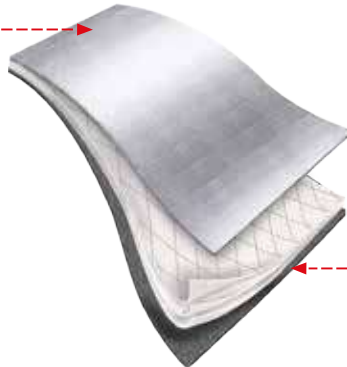
www.kivancgroup.com



Outershell

304 APC 500
500 g/m²

Aluminized Glass Fabric with
Double Reflection Tehnology



Heat Barrier

5005 Three layers of aramid
felt quilted to an
Aramid/Viscose FR
inner lining



EN 1486

003

KIVANC
Group



REFSTAR

CURTIS

817101 - Gaiters

www.kivancgroup.com



378

ADK 290 g/m²

Aluminized knitted para-aramid fabric with Dual Mirror Technology



EN ISO 11612
A1 A2 B1 C4 D2 E2 F1



302

ADK 460 g/m²

Aluminized woven para-aramid with Transfer Foil Technology



EN ISO 11612
A1 A2 B1 C3 D3 E3 F1



304

APC 500 g/m²

Aluminized Glass Fabric with Double Reflection Technology



EN ISO 11612 A1 B1 C4



KIVANC
Group



REFSTAR
STAN

817102 - Gaiters

www.kivancgroup.com

FORESTAR

Chainsaw Protection



Protection **YOU** Deserve

Why FORESTAR?

Chainsaws have the potential to cause major injuries. It is essential that anyone who uses a chainsaw at work should have received adequate training and be competent in using a chainsaw for the type of work that they are required to do. They are also required to wear appropriate chainsaw protective clothing while using the chainsaw.

FORESTAR chainsaw protective clothing is designed for logging operators, and thanks to its special protective layer, it stops the chainsaw and prevents the person from being harmed.

FORESTAR chainsaw protective clothing is the first EN 381 certified product manufactured in Turkey. Chainsaw protective clothing should be used with the right equipment for full protection. These are chainsaw boots, chainsaw gloves, helmets, visors and ear protectors.

Application Areas

- Arboriculture
- Forestry
- Power Distribution
- Farming

Requirements for protective clothing that protects against chainsaw:

Some of chainsaw PPE are labelled Class 1, Class 2 and Class 3. This labelling defines the chainsaw speed at which that particular item of PPE was tested and therefore the speed at which it can effectively stop the chain. Class 1 products are tested with a chainsaw speed of 20m/s. Class 2 products at 24m/s and Class 3 at 28m/s.

Leg protection is an important piece of PPE when operating a chainsaw and should comply with EN 381-5.

Safety helmet to EN 397. Hearing protection to EN 352-1. Eye protection: Mesh visors to EN 1731 or safety glasses to EN 166.

Upper body protection: Chainsaw jackets should comply with EN 381-11.

Chainsaw Gloves should comply with EN 388 for Mechanical Hazards and EN 381-7 for Handled - Chainsaws protection against chainsaw cuts, thorny material and cold/wet conditions.

Specific requirements for Chainsaw Safety Boots are included in EN ISO 20345:2011.



KIVANÇ
Group

YOU

FORESTAR
TIMBER

848126 - Trousers

www.kivancgroup.com

TIMBER | Trousers

Model Details

- » Bib trousers with elastic suspenders
- » Buckles for suspender height adjustment ①
- » Front flap closed with zipper ②
- » Lateral closure with buttons ②
- » Patch pocket with zipper on chest ③
- » Side pockets
- » Patch pocket with flap on the right of back
- » Two ventilating pockets with zipper on the back
- » Orange pieces on trotters to improve visibility



864

Forestar 225 g/m²

Outer Layer: Cotton Polyester

Inner Layer: Chainsaw protective layer covered with 100% cotton lining



EN 381-5
Class 1

SAGE GREEN



ORANGE



KIVANÇ
Group

YOU

FORESTAR
TIMBER

848126 - Trousers

www.kivancgroup.com

TIMBER | Trousers

Model Details

- » Bib trousers with elastic suspenders
- » Buckles for suspender height adjustment ①
- » Front flap closed with zipper ②
- » Lateral closure with buttons ②
- » Patch pocket with zipper on chest ③
- » Side pockets
- » Patch pocket with flap on the right of back
- » Two ventilating pockets with zipper on the back
- » Orange pieces on trotters to improve visibility



864

Forestar 225 g/m²

Outer Layer: Cotton Polyester

Inner Layer: Chainsaw protective layer covered with 100% cotton lining



EN 381-5
Class 1

SAGE GREEN



ORANGE



KIVANÇ
Group

YOU

FORESTAR
MILES

843147 - Jacket

www.kivancgroup.com

MILES | Jacket

Model Details

- » Jacket with front flap closed by means of zipper and snap buttons ①
- » Patch pocket with flap on left chest
- » Right chest patch pocket with flap and snap buttons
- » Two patch pockets with flap on jacket hem
- » Cuff adjustment by means of snap buttons ②
- » Orange pieces on shoulders to improve visibility



TH040**Gloves****Model Details**

- » Class 0 (16m/s) protection to the left hand, a durable cowhide palm, with reinforcement bar
- » Water resistant & breathable polyester Hi-Vis orange backing

**Material:** Leather & PolyesterEN381 - 7
Class 0**KIVANC
Group****YOU****FORESTAR****TH040 - Gloves**www.kivancgroup.com

HARVIK 9794 | Boots

Model Details

- » Harvik 9794 Chainsaw Boots
- » Vulcanized Rubber Upper and Sole
- » Waterproof
- » Extra comfort with woven cotton canvas
- » Suitable for logging activity
- » Products tested at 24 metres per second of chainsaw's chain speed



EN 17249 : 2013
Class 2

Certification:
CE 0321 EN ISO 20345:2011
SB E FO SRA

ORANGE



BLACK

KIVANC
Group

YOU

FORESTAR
HARVIK 9794
Boots

www.kivancgroup.com

HAIX PROTECTOR LIGHT 2.0 | Boots

Model Details

- » Light, comfortable allrounder with protective cut-resistance
- » High-quality nubuck leather
- » Meets the cut protection standards of the Class 1 (20 m/sec)
- » Additional rubber cap prevents wear and tear
- » Breathable and water resistant
- » Antistatic and oil/petrol resistant sole



Material: Nubuck leather

Certification:
CE 0193 EN ISO 20345:2011
S3 HRO HI CI WR SRC



KIVANC
Group

YOU

FORESTAR
PROTECTOR LIGHT 2.0

604110 - Boots

www.kivancgroup.com

3M PELTOR FORESTRY HELMET KIT

Model Details

- » 3M PELTOR Forestry Helmet Set, suitable for forestry work all the year round, in particular using chainsaws.
- » System combines the proven 3-piece head, face and hearing protection, and this highly visible orange kit includes:
 - » (G2000) safety helmet (EN 397) with 4 point ratchet suspension and UV sensor
 - » Mesh visor (EN 1731)
 - » Helmet mounted ear muffs (EN 352)



KIVANÇ
Group



FORESTAR
FORESTRY HELMET KIT

820804011

www.kivancgroup.com

STANDARDS FOR INDUSTRIAL SOLUTIONS

There are several standards regarding personal protective clothing:

- EN ISO 11612 – Heat, Flame & Molten Metal Splash
- EN ISO 11611 – Welding Protection
- EN ISO 14116 – Heat & Flame Protection, Limited Flame Spread
- EN 1149-5 – Electrostatic Properties
- EN 61482-1-2 – Electric Arc Protection (Box Test)
- EN 61482-1-1 – Electric Arc Protection (Open Arc)
- EN 20471 – High Visibility
- EN 343 – Protection against Rain
- EN 381 – Chainsaw Protection

Check the label of your garment in order to learn the protection level.

EN ISO 11612 Heat & Flame Protection



The purpose of this standard is to provide minimum performance requirements for clothing to protect against heat and flame. Within many of the hazards listed in this standard there are three performance levels, Level 1 to indicate exposure to perceived low risk, Level 2 to indicate exposure to perceived medium risk and Level 3 to indicate exposure to perceived high risk. For protection against radiant heat, there is a fourth performance level, to take into account high performance materials such as aluminized and similar materials. The level of personal protection to be provided should be based on the outcome of the risk assessment. For complete protection against exposure to heat and/or flame, it is probable that it will be necessary to protect the head, face, hands and/or feet with suitable PPE and in some cases, appropriate respiratory protection may also be considered as necessary.

- Code A: Limited Flame Spread (A1 or A2)
- Code B: Protection against Convective Heat (B1, B2 or B3)
- Code C: Protection against Radiant Heat (C1, C2, C3 or C4)
- Code D: Protection against Molten Aluminium (D1, D2 or D3)
- Code E: Protection against Molten Iron Splash (E1, E2 or E3)
- Code F: Protection against Contact Heat (F1, F2 or F3)

EN ISO 11611 Welding Protection



EN ISO 11611 specifies minimum basic safety requirements and test methods for protective clothing including hoods, aprons, sleeves and gaiters that are designed to protect the wearer's body including head (hoods) and feet (gaiters) and that are to be worn during welding and allied processes with comparable risks. For the protection of the wearer's head and feet, EN ISO 11611 is only applicable for hoods and gaiters. EN ISO 11611 does not cover requirements for hand protection. This type of protective clothing is intended to protect the wearer against spatter (small splashes of molten metal), short contact time with flame, radiant heat from the arc, and minimizes the possibility of electrical shock by short term, accidental contact with live electrical conductors at voltages up to approximately 100 V d.c. in normal conditions of welding. Sweat, soiling or other contaminants can affect the level of protection provided against short term accidental contact with live electric conductors at these voltages. EN ISO 11611 specifies two classes with specific performance requirements, i.e. Class 1; the lower level and Class 2; the higher level.

Class 1 is protection against less hazardous welding techniques and situations, causing lower levels of spatter and radiant heat.

Class 2 is protection against more hazardous welding techniques and situations, causing higher levels of spatter and radiant heat.

For adequate overall protection against the risks to which welders are likely to be exposed, personal protective equipment (PPE) covered by other standards should additionally be worn to protect the head, face, hands and feet.

EN ISO 14116 Heat & Flame Protection, Limited Flame Spread



ISO 14116 specifies the performance requirements for the limited flame spread properties of materials, material assemblies and protective clothing in order to reduce the possibility of the clothing burning and there by itself constituting a hazard. Additional requirements for clothing are also specified.

Protective clothing complying with this International Standard is intended to protect workers against occasional and brief contact with small igniting flames, in circumstances where there is no significant heat hazard and without the presence of another type of heat. When protection against heat hazards is necessary in addition to protection against limited spread flammability, then standards, such as EN ISO 11612, are more appropriate. A classification system (index 1, index 2, index 3) is given for materials, material assemblies and garments which are tested according to EN ISO 15025, Procedure A.

EN 1149-5 Electrostatic Properties



This European Standard specifies material and design requirements for electrostatic dissipative protective clothing, used as part of a total earthed system, to avoid incendiary discharges. The requirements may not be sufficient in oxygen enriched flammable atmospheres. This European Standard is not applicable for protection against mains voltages.

The standard specifies 3 areas:

- 1- Material performance requirements
- 2- Design requirements
- 3- Marking & guidance

Ad 1) Performance tests should be made after pretreatment for protective clothing produced from woven fabrics

Electrostatic requirements

Materials with conduction threads in stripe or grid pattern, the maximum space shall not exceed 10 mm in one direction

Surface Resistance & Induction Charging

- | | |
|---------------|---------------------------|
| EN 1149-1 | ≥ 2.5 × 10 ⁹ Ω |
| EN 1149-3 - 2 | Half decay time > 4 s |
| | Shielding factor > 0.2 |

IEC 61482 Electric Arc Protection



IEC 61482-2:2018

This standard regulates heat and flame resistant clothing for workers exposed to electric arcs. A direct and constrained electric arc in a low voltage circuit is used to classify material / garments in defined arc protection classes.

EN 61482-1-2 Box Test

- APC 1: Fabrics that pass 4kA current, burning time less than 5 seconds.
- APC 2: Fabrics that pass 7kA current, burning time less than 5 seconds.

Garment test must be done along with material tests. Both tests are necessary for certification. Garment class will be defined according to the results of tests. Garment protection level should be clearly written on the label.

If a garment consists of different layers this should be written on the user manual. Never use synthetic and flammable fabrics inside these garments. You can wear these garments with the other fire retardant suits to increase the safety performance.

EN 61482-1-1 Open Arc Test

ATPV: Arc Thermal Performance Value (cal/cm²)
E_{bt}: Energy to Break Open Value
HAF: Heat Attenuation Factor

EN 61482-1-1 specifies test methods to measure the arc thermal performance value of materials intended for use in heat- and flame-resistant clothing for workers exposed to the thermal effects of electric arcs and the function of garments using these materials.

EN 20471 High Visibility



EN ISO 20471

EN ISO 20471 is the harmonized European standard for high visibility clothing. It specifies the requirements for signaling the users presence day or night. It intends to make users in hazardous situations conspicuous under any light conditions. The standard provides for two performance parameters:

- X: Surface of fluorescent and retroreflective material (3 levels)
- Y: Quality of the retro-reflecting materials (2 levels)

EN 343 Protection Against Rain



EN 343

EN 343 is the harmonised European standard that applies to garments worn in adverse weather conditions. It specifies the characteristics of protective clothing against the influence of foul weather, wind and cool above -5°C. The standard provides for two performance parameters:

- X: Waterproofness (3 levels)
- Y: Breathability properties (3 levels)

KIVANÇ Group

Head Quarters:

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