

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

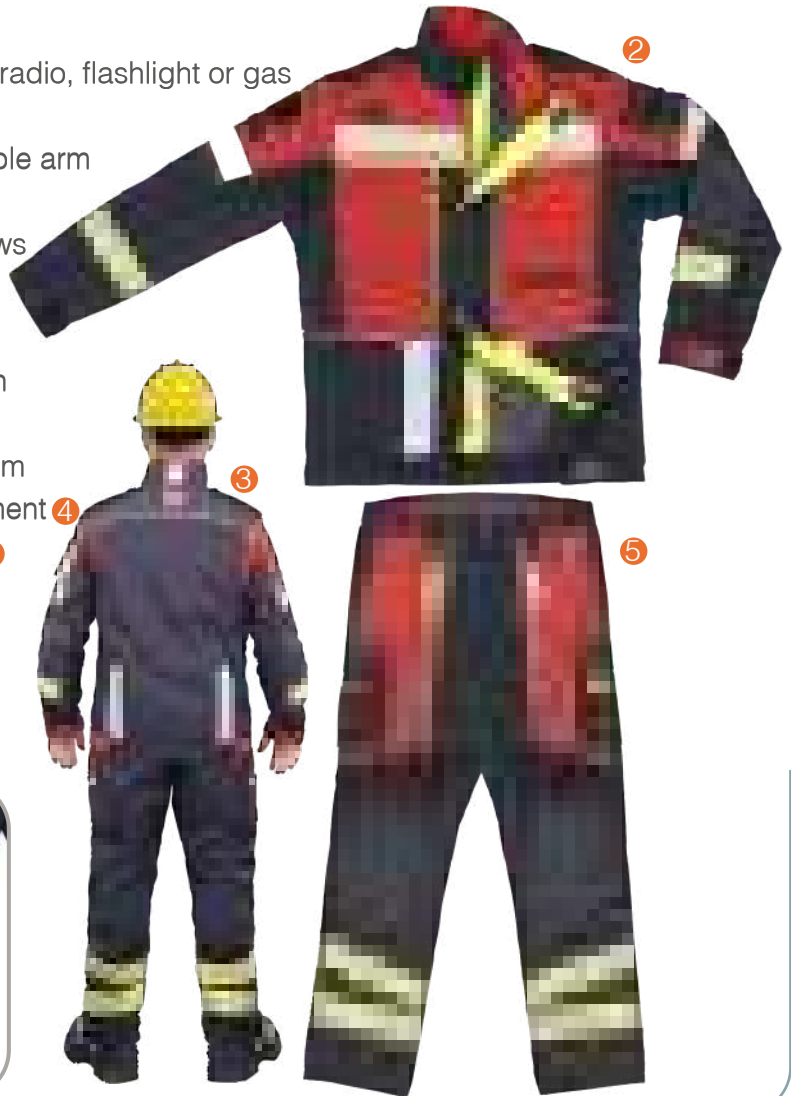
JACKET

- » 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



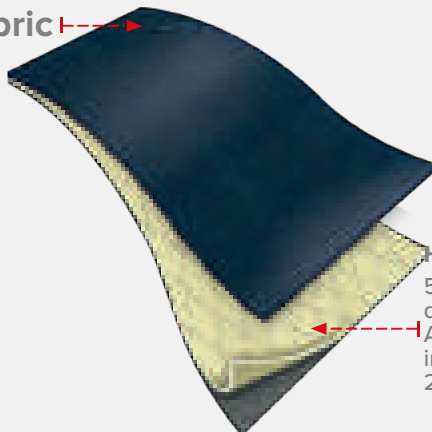
TROUSERS

- » 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

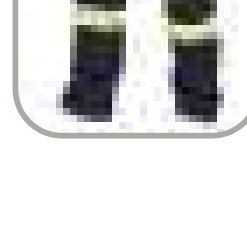
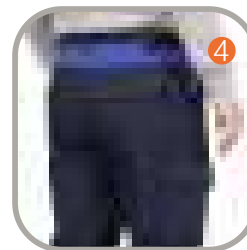
Model Details

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





KIVANC
Group



INDUSTAR

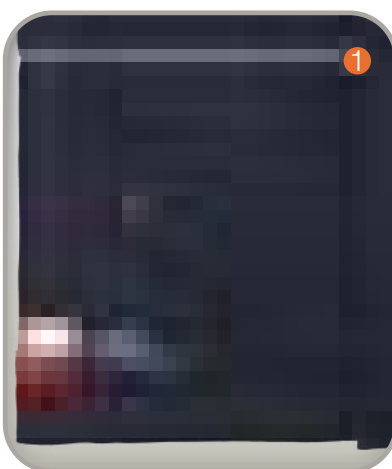
LUIS

816158 - Vest

www.kivancgroup.com

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





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

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

YOU

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

KELVIN

837277 - Jacket & Trousers

www.kivancgroup.com

KELVIN | Jacket & Trousers

Model Details

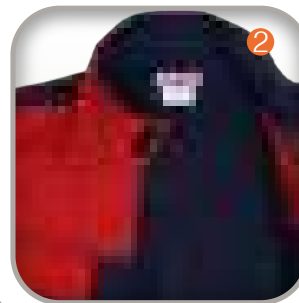
JACKET

- » 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



363

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



310

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





KIVANÇ
Group



INDUSTAR

ADAM

837275 - Jacket & Trousers

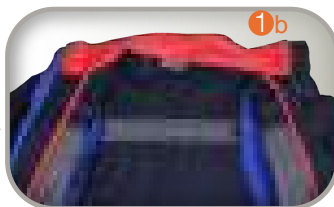
www.kivancgroup.com

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

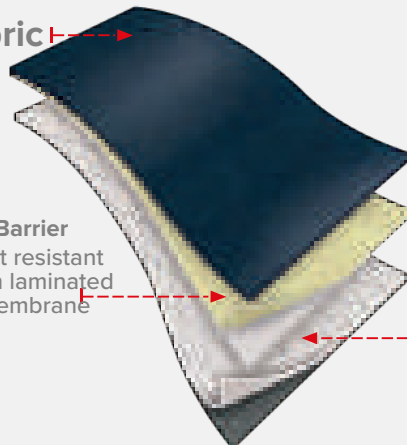
- » Water and windproof hood with drawcord, detachable by means of a zipper ①
- » Jacket has a moisture barrier, all seams are seam-sealed to prevent water leakage
- » Front flap closure by means of a zipper and Velcro tapes
- » Chest patch pockets with flaps closed by means of Velcro tapes ②
- » Velcro 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

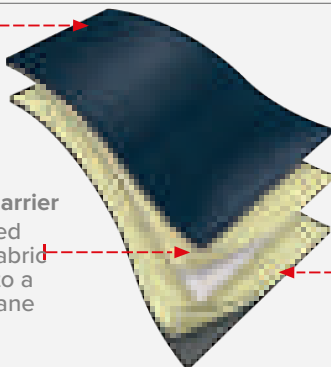
- » Water and windproof hidden hood with drawcord ①
- » Jacket has a moisture barrier, all seams are seam-sealed to prevent water leakage
- » Front flap closed by means of a zipper and Velcro tapes ②
- » Lower welt pockets with flaps closed by Velcro tapes ③
- » Chest pockets with flaps closed by Velcro 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 1149-5



EN ISO 11611
Class 1



DARK
BLUE



ROYAL
BLUE



RED



ORANGE



KIVANÇ
Group

YOU

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 ❶
- » Chest patch pockets with flap closed by zippers
- » Cuf adjustment by means of snap buttons ❷
- » Elastic belt ❸
- » 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/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 61482-1-1
ATPV 8,7cal/cm²



DARK
BLUE



ROYAL
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
ATPV 8,7cal/cm²



EN 61482-14ATPV
7,5 cal/cm²



DARK
BLUE



ROYAL
BLUE



RED



ORANGE

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 61482-1-2
ATPV 8,7cal/cm²



EN ISO 1161
Class 1



DARK
BLUE



ROYAL
BLUE



RED



ORANGE



DARK
GREY



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 ❶
- » Cuff adjustment by means of buttons ❷
- » Segmented silver reflective tapes on chest and back ❸



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)

BLACK



ROYAL
BLUE

DARK
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)

ROYAL
BLUE



ORANGE



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

YOU

INDUSTAR
ALBERT

835103 - Antistatic Flame Retardant Rain Coat

www.kivancgroup.com

ALBERT | Antistatic Flame Retardant Rain Coat

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



311

High-Vis Polyester FR 250 g/m²

98% FR Polyester, 2% Antistatic with PU Coating



DARK
BLUE



HIGH-VIS
YELLOW



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



DARK
BLUE



HIGH-VIS
YELLOW



KIVANÇ
Group



INDUSTAR
BARRY

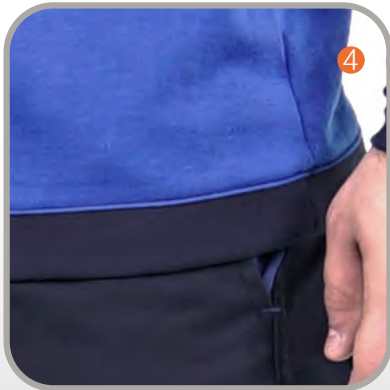
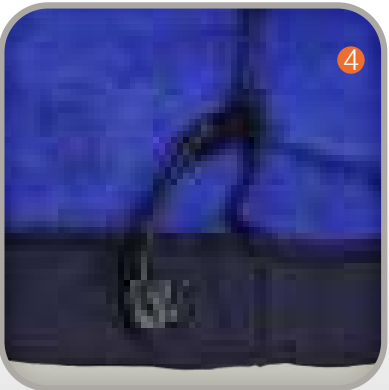
822143 - Round Collar Sweatshirt

www.kivancgroup.com

BARRY | Round Collar Sweatshirt

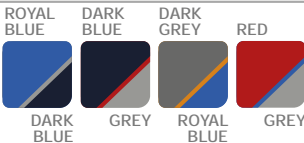
Model Details

- » 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





KIVANÇ
Group



INDUSTAR
BENSON

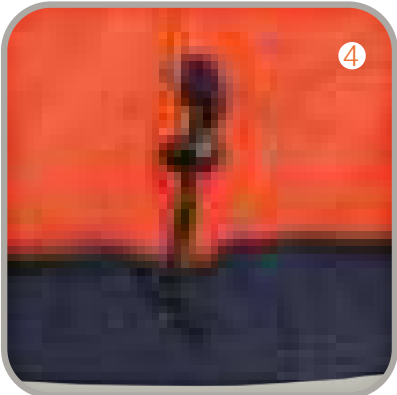
822144 - Straight Collar Sweatshirt

www.kivancgroup.com

BENSON | Straight Collar Sweatshirt

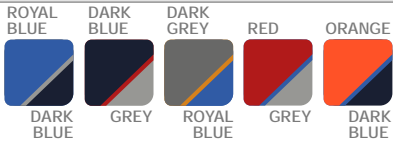
Model Details

- » 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

YOU

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



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





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INDUSTAR
DANNY

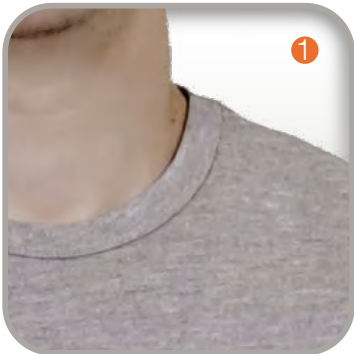
822131 - Round Collar Sweatshirt

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

KIVANC
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INDUSTAR

ERIC

854106 - Underwear

www.kivancgroup.com

NICK I 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



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



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



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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

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)



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YOU

INDUSTAR
Fire Blanket

www.kivancgroup.com

PROTEK® | Welding Curtain

Model Details

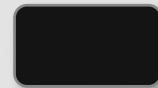
- » Welding blanket made of hybride composite material reinforced with heat resistant glass fiber fabric needle punched to a molten metal splash protective carbon felt from both sides.
- » More durable, lighter and easier to use compared to other welding curtains
- » Standard sizes are 90 x 100 cm, 190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

YOU

INDUSTAR
Welding Curtain

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

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

EN ISO 11612 Heat & Flame Protection



ISO 11612

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 necessity.

- 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

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



EN ISO 14116

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 thereby 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



EN 1149-5

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)



**Established in 1980, Kivan 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 temperature resistant glass fiber based materials. We manufacture removable insulation pads for turbines, plastic injection molding machines, textile dyeing 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 fields.

- 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.



KIVANÇ Group

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