



FIRESTAR FIREFIGHTING GARMENTS & EQUIPMENTS

FIRESTAR FIREFIGHTING GARMENTS & EQUIPMENTS FIRESTAR FIR



DIVISIONS

Established in 1980, Kivanç Group continues its activities in 4 divisions:



SAFETY
Heat & Flame
Protective Clothing



TECHNICAL TEXTILE
Technical Yarns
& Fabrics



ENGINEERING
Glass Fiber Thermal
Insulation Materials



MINING
Silica/Quartz
Sand
Musselstone

TECHNICAL ASSISTANCE

As an expert in personal protective clothing industry, we give technical assistance to our customers. Our experienced technical staff recommends the correct materials according to the risk analysis of our customers. Our Design Studio Team recommends the perfect design meeting EN standard requirements and customer requests.

DESIGN STUDIO

We have our own Design Studio and we develop customized solutions for different applications. Starting from scratch, we develop all details of a protective clothing by means of Adobe Illustrator, Adobe Photoshop, Gerber and other software programs. We have expertise in combining customer requests and EN standard requirements to make the perfect design.

HIGH QUALITY PRODUCTS

Using high quality materials is a key factor in order to have long term relationship with our customers. In order to do that we are working with PBI® and 3M Scotchlite™ products. We are an official partner of PBI Performance Products, Inc.

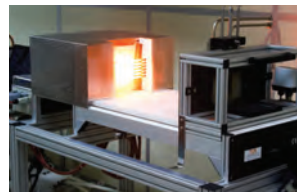
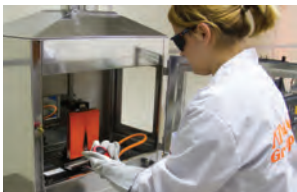


3M Scotchlite™
Reflective Material



LABORATORY AND R&D

We built the first heat laboratory in Turkey for personal protective garments. 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 to 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.



ISO 9001 QUALITY SYSTEM

We are an ISO 9001 certified company. All processes are recorded and audited through strict procedures.

ERP SYSTEM

We use an ERP (Enterprise Resource Planning) System to keep track of all records. All divisions are integrated: Purchasing, Sales, Production, Accounting, Warehouse, Import, Export etc.

BARCODE SYSTEM

We implemented Barcode System in 2011. We use a unique barcode system which enables us tracking each individual product separately.

TRACEABILITY

Using a barcode system enables us to track each individual item. We can track the history of a garment through its barcode: When was this product manufactured and which Product Order Number was used? Which raw materials are used in this production? From which supplier at which date with which lot number were these raw materials bought? Traceability is possible in each step.

CE CERTIFICATION

Our products are tested according to European Standards and are CE certified by accredited notified bodies / laboratories in Europe.

PRODUCT LIABILITY INSURANCE

Our customers are in safe hands. We have a Product Liability and Third Party Liability Insurance. This insurance covers the claims for bodily/material loss or damage as a result of the usage of the insured product.

NO	NAME	OUTER LAYER	MOISTURE BARRIER	HEAT BARRIER
EN 469:LEVEL 2 Xf2, Xr2, Y2, Z2				
033	FIRESTOP	390 - PBI X55 205 g/m ² 40% PBI 59% Para - Aramid 1% Antistatic	4003 - Heat resistant 3D Nonwoven laminated to an e - PTFE bicomponent Membrane [165 g/m ²]	5000 - Heat resistant Nonwoven quilted to an Aramid/Viscose FR inner lining [205 g/m ²]
018	MATRIX PLUS	388 - PBI Matrix 205 g/m ² 40% PBI 58% Para - Aramid 2% Antistatic	4002 - Heat resistant Nonwoven laminated to an e - PTFE bicomponent Membrane [125 g/m ²]	5000 - Heat resistant Nonwoven quilted to an Aramid/Viscose FR inner lining [205 g/m ²]
013	PANO	387 - PBI Gold 205 g/m ² 40% PBI 58% Para - Aramid 2% Antistatic	4001 - Heat resistant Nonwoven laminated to a PU Membrane [125 g/m ²]	5000 - Heat resistant Nonwoven quilted to an Aramid/Viscose FR inner lining [205 g/m ²]
041	PANO PLUS	387 - PBI Gold 205 g/m ² 40% PBI 58% Para - Aramid 2% Antistatic	4002 - Heat resistant Nonwoven laminated to an e - PTFE bicomponent Membrane [125 g/m ²]	5000 - Heat resistant Nonwoven quilted to an Aramid/Viscose FR inner lining [205 g/m ²]
008	FREE	386 - Fire - Resist 195 g/m ² 75% Meta - Aramid 23% Para - Aramid 2% Antistatic	4001 - Heat resistant Nonwoven laminated to a PU Membrane [125 g/m ²]	5000 - Heat resistant Nonwoven quilted to an Aramid/Viscose FR inner lining [205 g/m ²]
030	FREE PLUS	386 - Fire - Resist 195 g/m ² 75% Meta - Aramid 23% Para - Aramid 2% Antistatic	4002 - Heat resistant Nonwoven laminated to an e - PTFE bicomponent Membrane [125 g/m ²]	5000 - Heat resistant Nonwoven quilted to an Aramid/Viscose FR inner lining [205 g/m ²]
039	FREE PLUS RIPSTOP	392 - Fire - Resist Ripstop 195 g/m ² 75% Meta - Aramid 23% Para - Aramid 2% Antistatic	4002 - Heat resistant Nonwoven laminated to an e - PTFE bicomponent Membrane [125 g/m ²]	5000 - Heat resistant Nonwoven quilted to an Aramid/Viscose FR inner lining [205 g/m ²]
045	FREE PLUS ULTRA LIGHT	386 - Fire - Resist 195 g/m ² 75% Meta - Aramid 23% Para - Aramid 2% Antistatic	4005 - Heat resistant Nonwoven laminated to an e - PTFE bicomponent Membrane [90 g/m ²]	5008 - Heat resistant Nonwoven quilted to an Aramid/Viscose FR inner lining [175 g/m ²]
046	ECO	386 - Fire - Resist 195 g/m ² 75% Meta - Aramid 23% Para - Aramid 2% Antistatic	4000 - Heat resistant Nonwoven laminated to a PU Membrane [90 g/m ²]	5003 - Heat resistant felt quilted to an Aramid/Viscose FR inner lining [250 g/m ²]

EN 469 This European Standard specifies minimum RHTI₁₂ level of performance requirements for protective clothing to be worn during firefighting operations and associated activities such as rescue work, assistance during disasters. This European Standard covers general clothing design, minimum performance levels of the materials used and methods of test to be used to determine these performance levels. Firefighting Garments shall provide protection for the firefighters torso, neck, arms to the wrists, and leg to ankles during the activities.

EN 469 Level 2 is the higher requirement for structural firefighting and is used by professional firefighters. Level 2 suits should include a waterproof moisture barrier.

Xf2 = Convective heat HTI₂₄ ≥ 13s and HTI₂₄ - HTI₁₂ ≥ 4s

Xr2 = Radiant heat RHTI₂₄ ≥ 18s and RHTI₂₄ - RHTI₁₂ ≥ 4s

Y2 = Water resistance ≥ 20 kPa

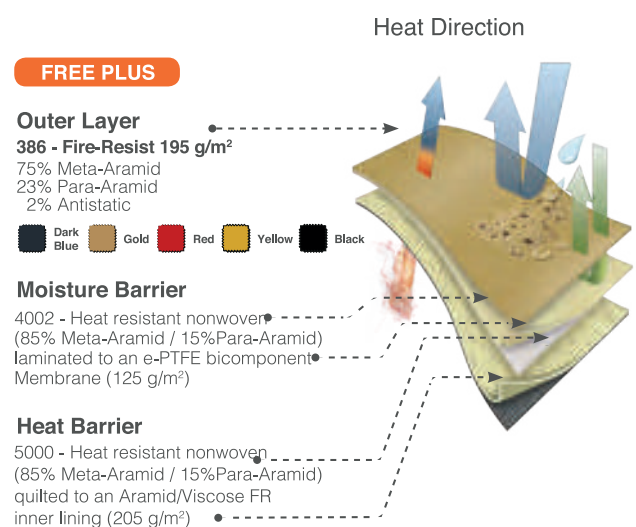
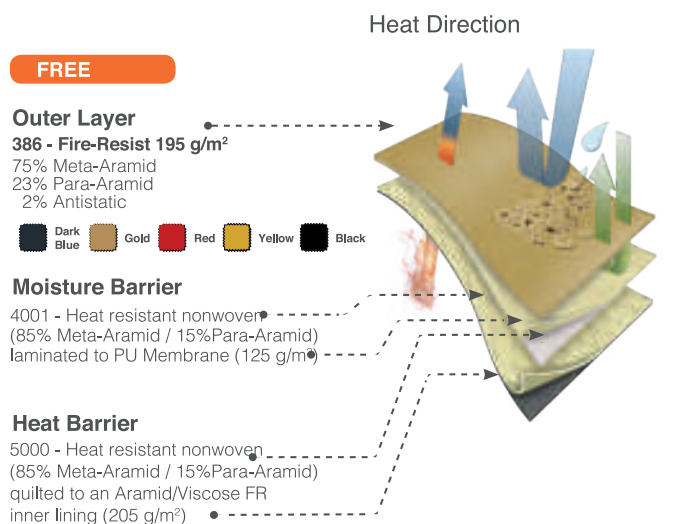
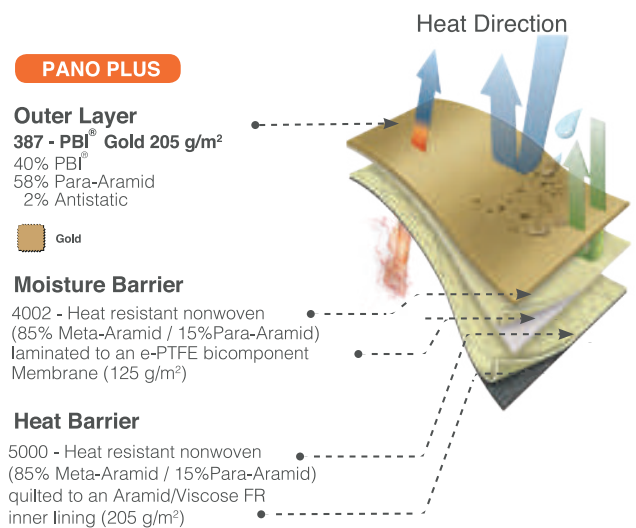
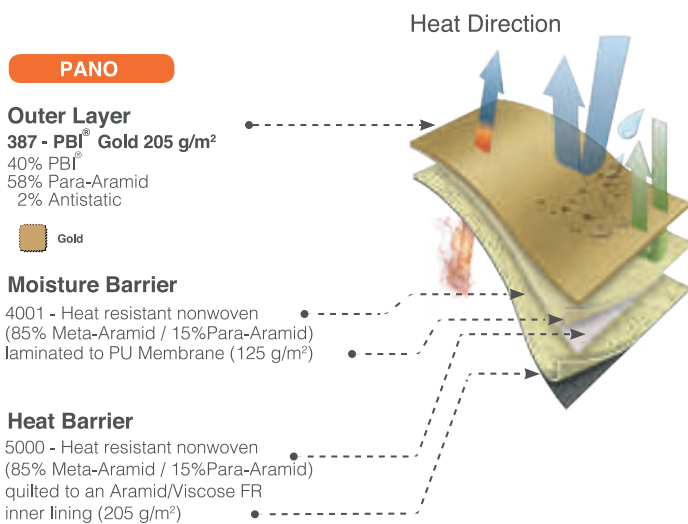
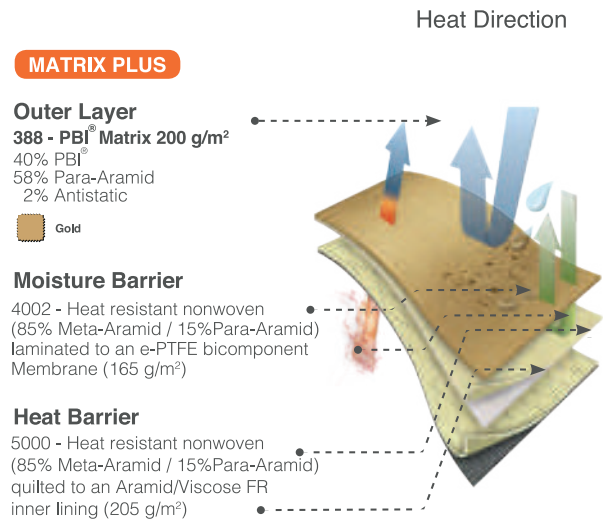
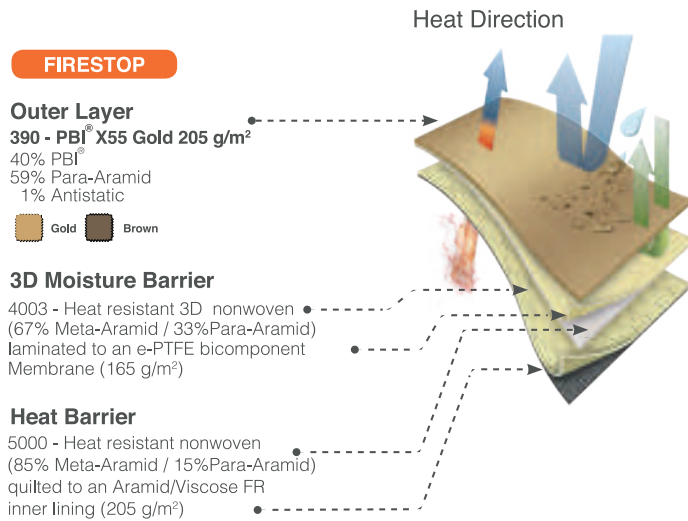
Z2 = Water vapour resistance ≤ 30 m² Pa/W

NO	NAME	OUTER LAYER	MOISTURE BARRIER	HEAT BARRIER
EN 1486				
002	ALU ADK 290	378 - Aluminized Para - Aramid 290 g/m ²	4000 - Heat resistant Nonwoven laminated to a PU Membrane (90 g/m ²)	5004 - Double layer Aramid felt quilted to an Aramid/Viscose FR inner lining (380 g/m ²)
003	ALU ADK APC	304 - Aluminized Glass Fabric 500 g/m ²		5005 - Three layers of Aramid felt quilted to an Aramid/Viscose FR inner lining (500 g/m ²)

EN 1486 - Aluminized Protective Clothing for Firefighters

This garment is intended for use in specialized firefighting operations, which may include the activities of rescue and fire suppression at incidents involving very high levels of radiant, convective and contact heat, such as aircraft fires, bulk flammable liquid fires.

These operations are conducted close to the fire but do not involve fire entry. Suitable Breathing Apparatus must be used together with the garment. The period for which protection will be provided by a protective garment can not be precisely stated as it will depend on the specific conditions encountered. The level of protection as outlined within EN 1486 is achieved through the use of multi-layer clothing assembly. The overjacket, overtrousers, shroud, gloves and boots with gaiters have been designed to for protection as defined in EN 1486 on its own without under garments.



FREE PLUS RS

Outer Layer

392 - Fire-Resist Ripstop 195 g/m²

75% Meta-Aramid
23% Para-Aramid
2% Antistatic

Dark Blue Gold Red Yellow Black

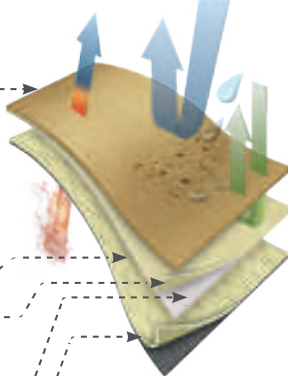
Moisture Barrier

4002 - Heat resistant nonwoven
(85% Meta-Aramid / 15% Para-Aramid)
laminated to an e-PTFE bicomponent
Membrane (125 g/m²)

Heat Barrier

5000 - Heat resistant nonwoven
(85% Meta-Aramid / 15% Para-Aramid)
quilted to an Aramid/Viscose FR
inner lining (205 g/m²)

Heat Direction



FREE PLUS ULTRA LIGHT

Outer Layer

386 - Fire-Resist 195 g/m²

75% Meta-Aramid
23% Para-Aramid
2% Antistatic

Gold Red Yellow

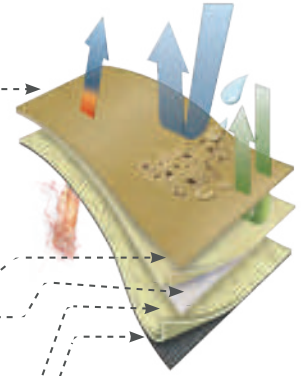
Moisture Barrier

4005 - Heat resistant nonwoven
(85% Meta-Aramid / 15% Para-Aramid)
laminated to an e-PTFE bicomponent
Membrane (90 g/m²)

Heat Barrier

5008 - Heat resistant nonwoven
(85% Meta-Aramid / 15% Para-Aramid)
quilted to an Aramid/Viscose FR
inner lining (175 g/m²)

Heat Direction



ECO

Outer Layer

386 - Fire-Resist 195 g/m²

75% Meta-Aramid
23% Para-Aramid
2% Antistatic

Dark Blue Gold Red Yellow Black

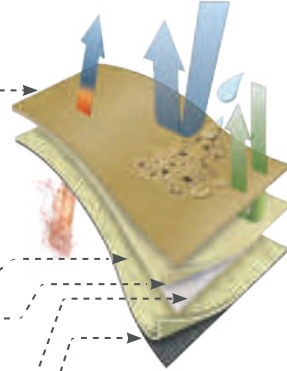
Moisture Barrier

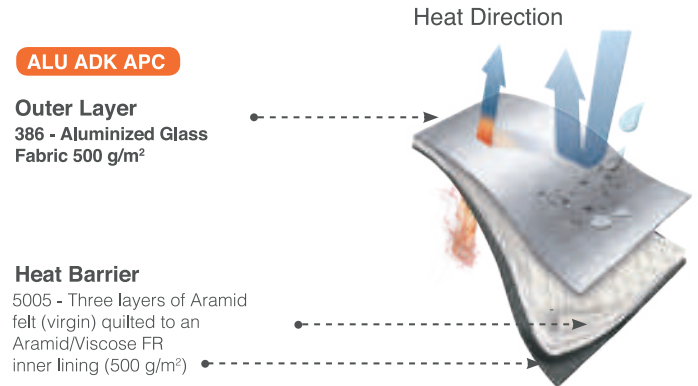
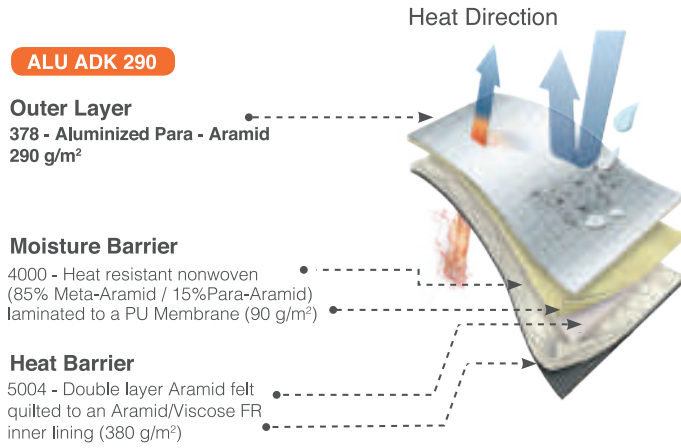
4000 - Heat resistant nonwoven
(85% Meta-Aramid / 15% Para-Aramid)
laminated to a PU Membrane
(90 g/m²)

Heat Barrier

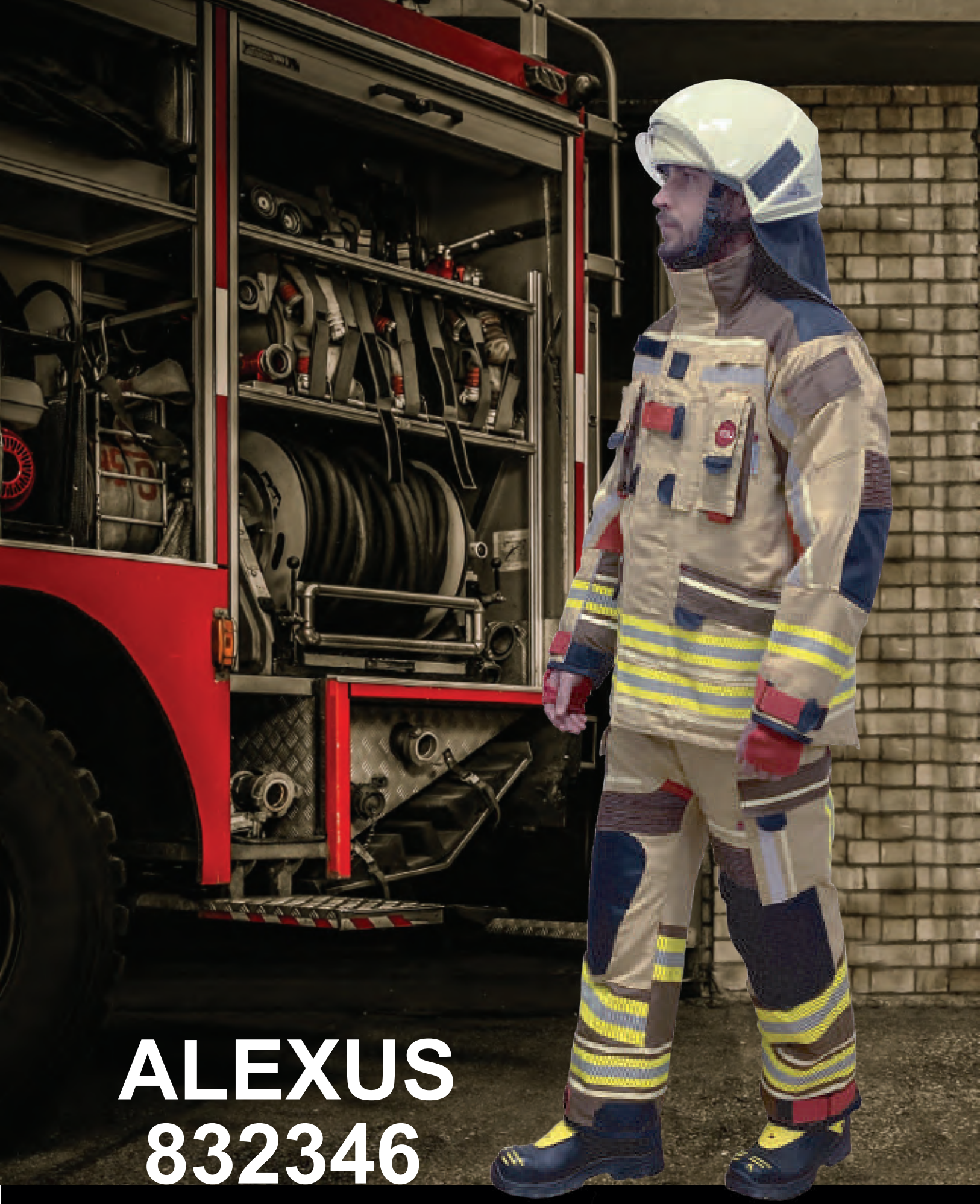
5003 - Heat resistant felt (virgin)
quilted to an Aramid/Viscose FR
inner lining (250 g/m²)

Heat Direction









ALEXUS
832346

REVOLUTION IN HIGH VISIBILITY

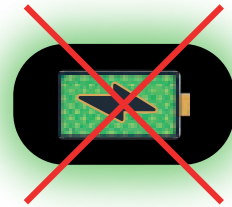
Glow in the dark photoluminescence tapes - silhouette visible in total darkness, visible in 200 m distance



Full charge in **5**
minute daylight

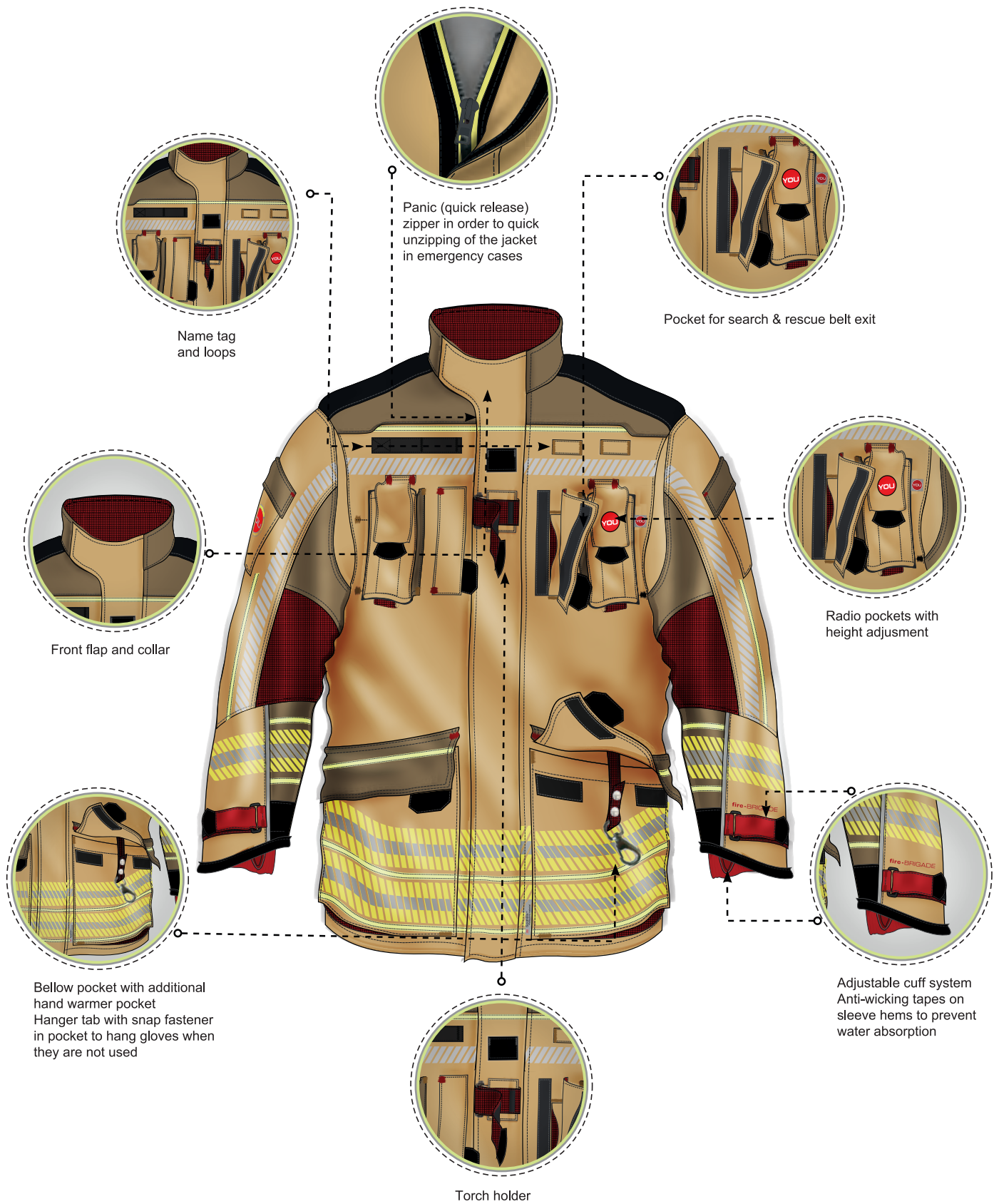
Full charge in **10**
minute fluorescent
light

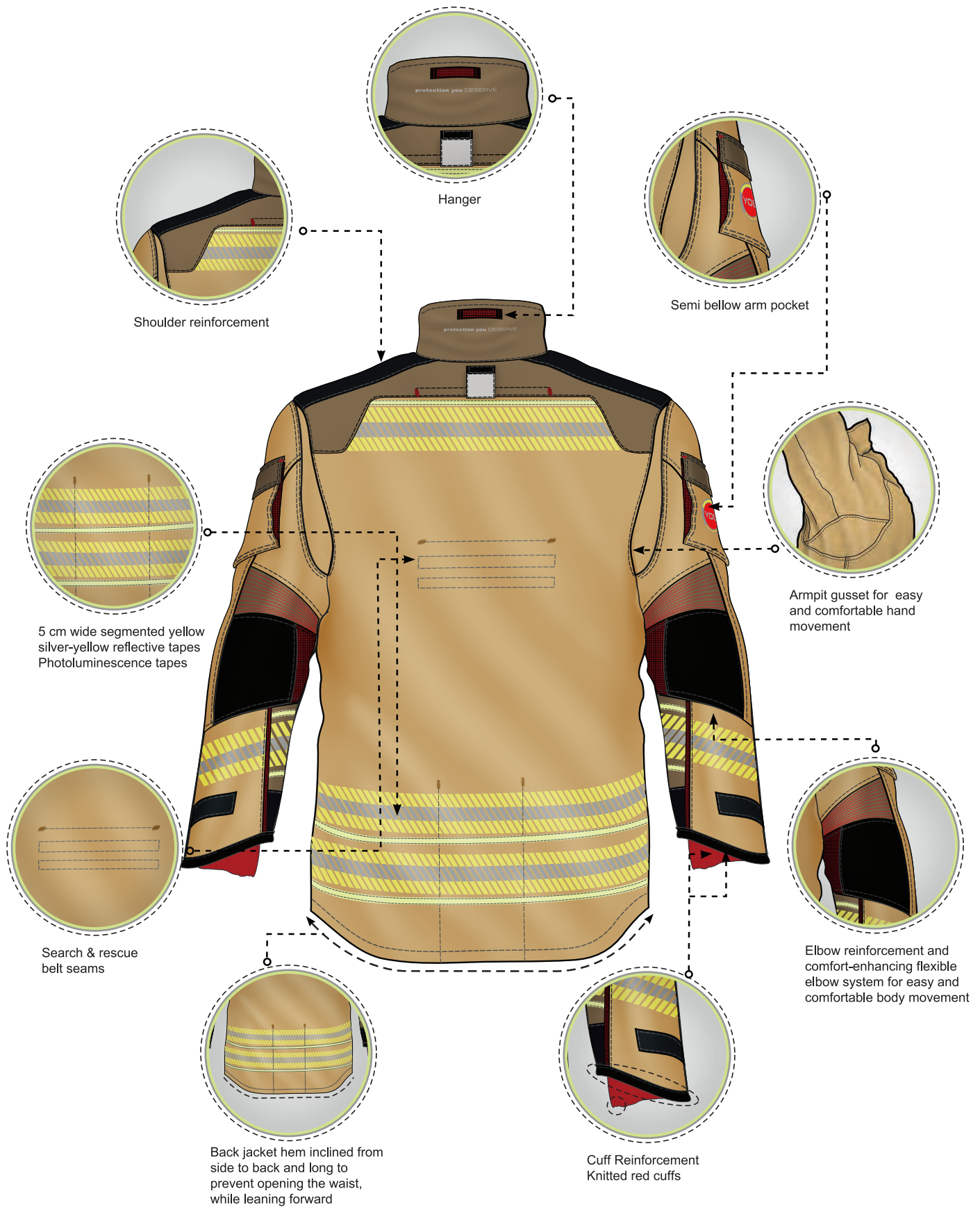
8
HOURS
OF ILLUMINATION
WITH
FULL CHARGE

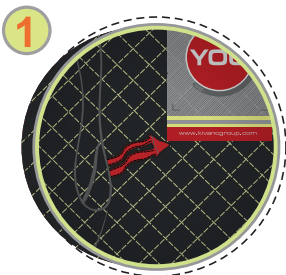


No battery needed





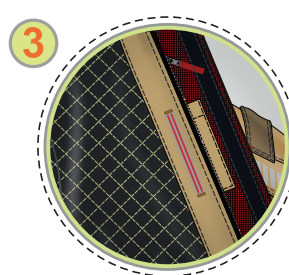




Hanger loops



Washing label and
inner pocket details



Pocket for full body harness
belt exit and pen pocket



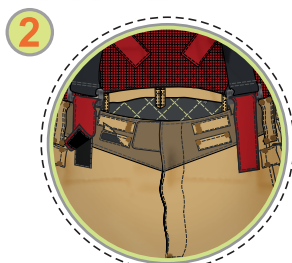
Anti-wicking fabric to prevent fluid entry
Water drain holes
Inspection opening with zipper closure



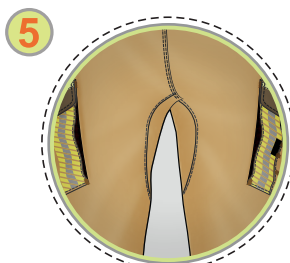
Inspection opening



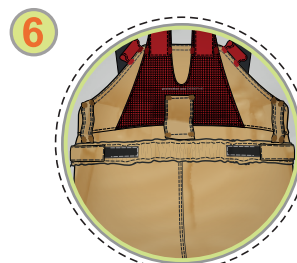
Adjustable and removable
suspender system



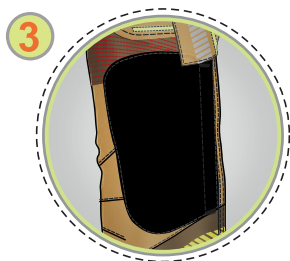
Exit points for belt
of sit harness



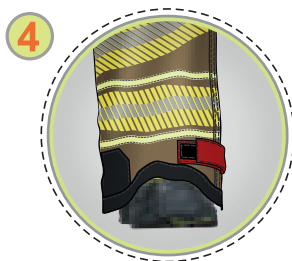
Crotch gusset for easy
movement



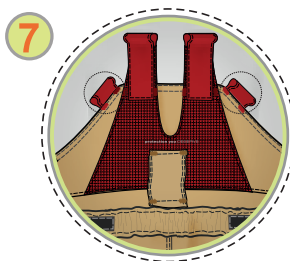
Adjustable belt system



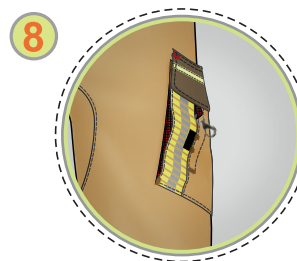
Wear resistant knee
reinforcement with
replaceable padding closed
with velcro tapes



Trotters with reinforcement
are adjustable with velcro tapes
Inward cut on the back of trotters for
comfortable movement

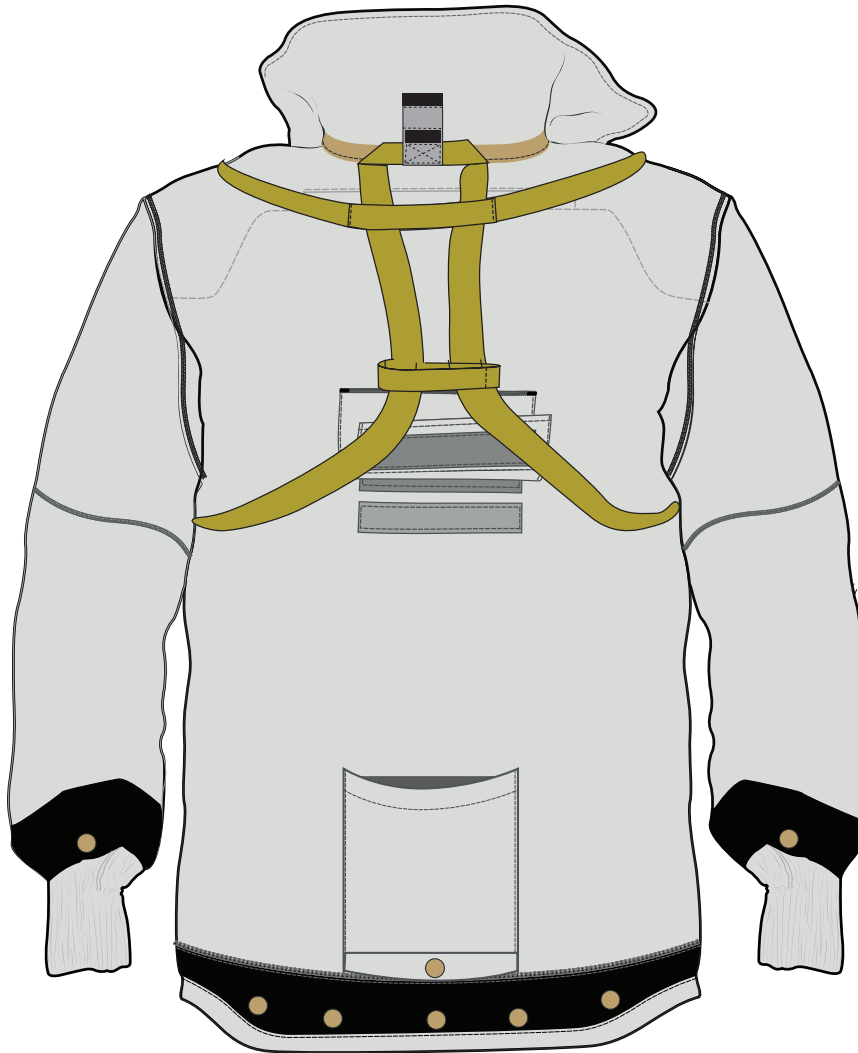


Velcro tapes for
belt of full body harness

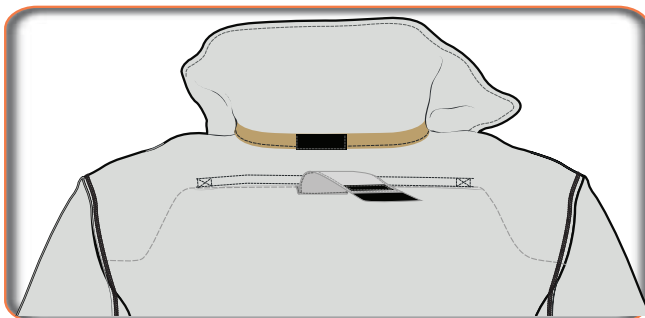


Cargo pocket with knife
pocket

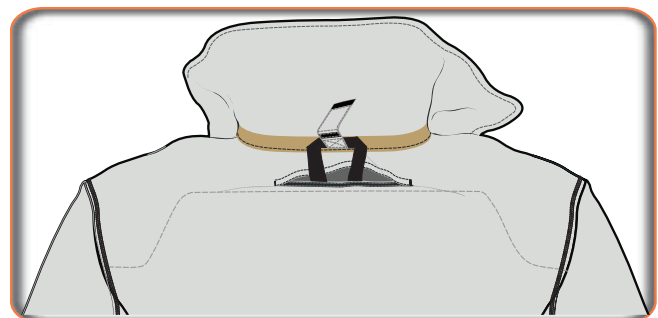
DRD System



Drag rescue device enables easy removal
of firefighter in case of emergency with the rescue belt.



DRD with open handle - 1

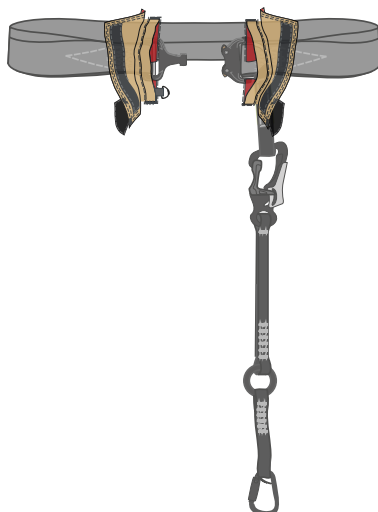


DRD with open handle - 2

Chest Belt



Firefighter fixes himself by using the belt system. Chest belt, which wraps the whole chest from the inside (between the outer layer and the moisture barrier), converges at the front



-OPTIONAL-

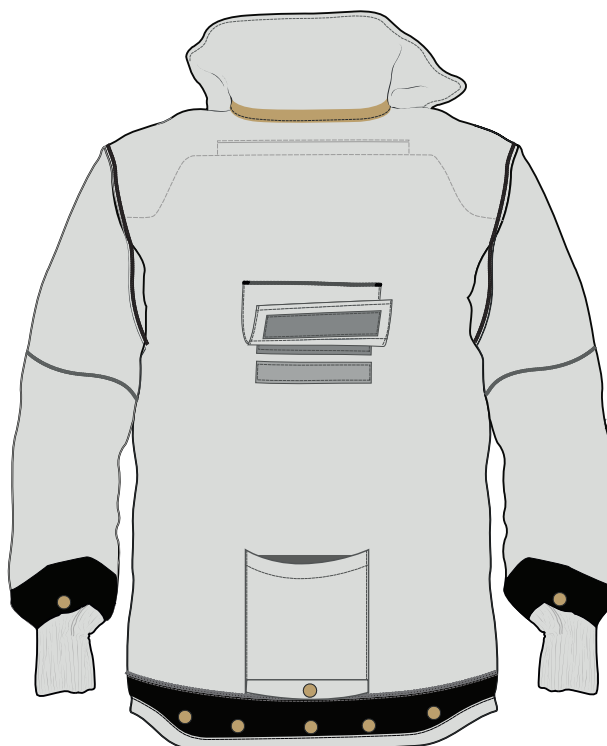
SUIT 832346
JACKET 841346
TROUSERS 842313

KIVANÇ
Group

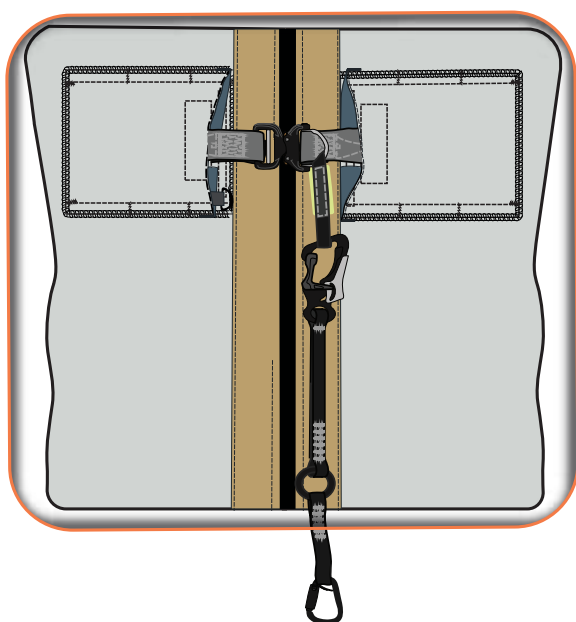
Chest Belt



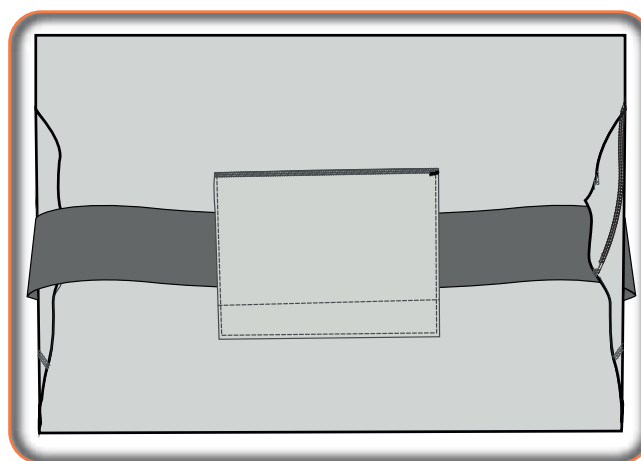
Chest belt front view inner details



Chest belt back view inner details



Belt connection front view



Belt connection back inner view

Sit Harness

Front View



Back view



Sit harness enables freedom of movement and a high degree of safety without weighing much through waist belt and leg loops.

Rescuer can sit comfortably in it when hanging. The load is spread to the upper thighs in the event of a fall.

-OPTIONAL-

Sit Harness 890144

KIVAN
Group

Sit Harness



Sit harness exit points

Sit harness front inner view

Sit harness back inner view

Full Body Harness

Front view**Back view****Side view**

A full body harness is body holding device used to protect firefighters/rescuers from falls by distributing the force throughout the body, ensuring the person is suspended upright after the fall.

Full body harness functions in the same way as a sit harness and chest harness combination.

It provides more body support for parts including; hips, legs, chest and shoulders.

Full body harness is easy to use, adjust and suitable for people of all shapes and sizes.

-OPTIONAL-

Full Body Harness 890145

KIVAN
Group

Full Body Harness

Full body harness exit points
from with firefighter jacket



Full body harness connection
with firefighter trousers







MAXIMUS
832358

REVOLUTION IN HIGH VISIBILITY

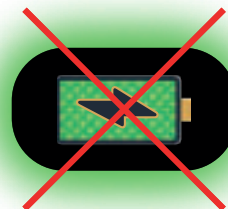
Glow in the dark photoluminescence tapes - silhouette visible in total darkness, visible in 200 m distance



Full charge in **5**
minute daylight

Full charge in **10**
minute fluorescent
light

HOURS
OF ILLUMINATION
WITH
FULL CHARGE

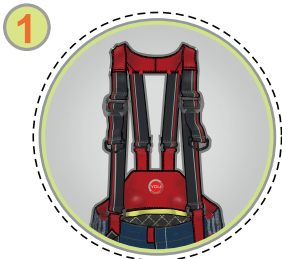


No battery needed









Adjustable and removable
suspender system



Inspection opening



Crotch gusset for easy
movement



Adjustable belt system



Wear resistant knee
reinforcement with
replaceable padding closed
with velcro tapes



Trothters with reinforcement
are adjustable with velcro tapes
Inward cut on the back of trothters for
comfortable movement



Back trothter reflective
tapes details



Cargo pocket





OPTIMUS
832425

REVOLUTION IN HIGH VISIBILITY

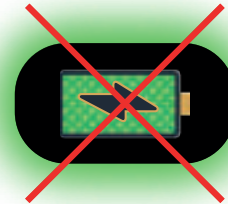
Glow in the dark photoluminescence tapes - silhouette visible in total darkness, visible in 200 m distance



Full charge in **5**
minute daylight

Full charge in **10**
minute fluorescent
light

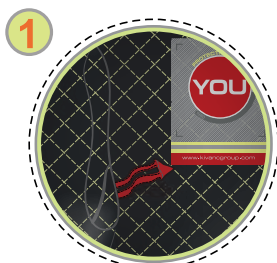
HOURS
OF ILLUMINATION
WITH
FULL CHARGE



No battery needed







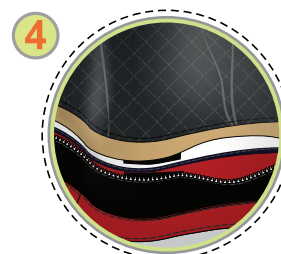
Hanger loops



Washing label and
inner pocket details



Front flap and collar



Antiwicking fabric to
prevent fluid entry
Water drain holes
Inspection opening



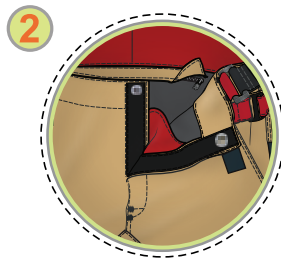
Arm end reinforcement



Elbow reinforcement



Adjustable and removable
suspender system



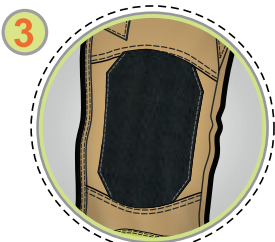
Front flap



Side and inside pockets



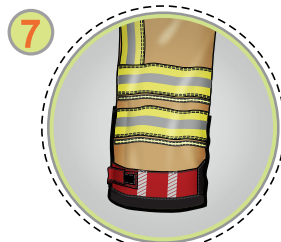
Adjustable belt system



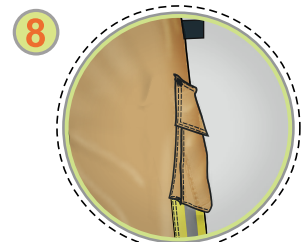
Wear resistant knee
reinforcement with
padding



Trothors adjustable with
velcro tapes



Trothor with reflective tape details



Cargo pockets





STEFAN II
832356

REVOLUTION IN HIGH VISIBILITY

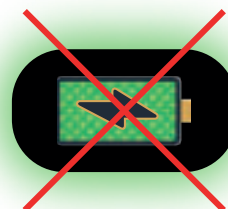
Glow in the dark photoluminescence tapes - silhouette visible in total darkness, visible in 200 m distance



Full charge in **5**
minute daylight

Full charge in **10**
minute fluorescent
light

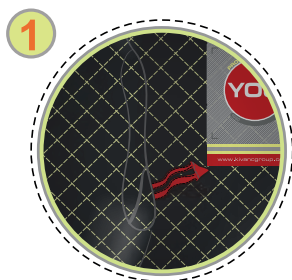
8
HOURS
OF ILLUMINATION
WITH
FULL CHARGE



No battery needed



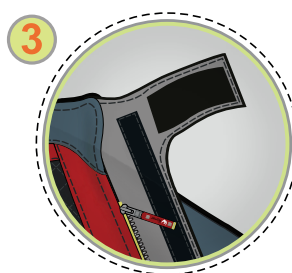




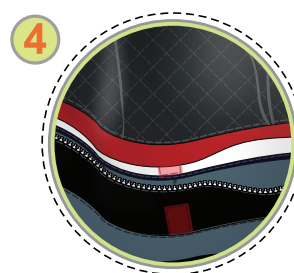
Hanger loops



Washing label and
inner pocket details



Front flap and collar



Anti-wicking fabric to
prevent fluid entry
Water drain holes
Inspection opening



Adjustable and removable
 suspender system



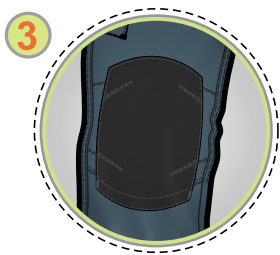
Front flap



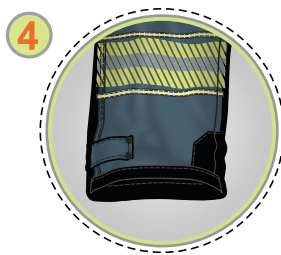
Side pockets



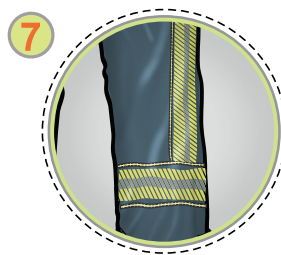
Adjustable belt system



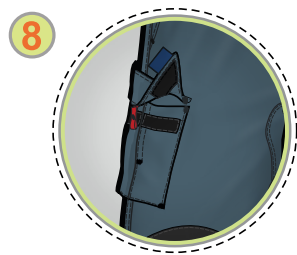
Wear resistant knee
 reinforcement with
 padding



Trothors adjustable with
 velcro tapes



Trothor with reflective tape details



Knife and cargo pockets

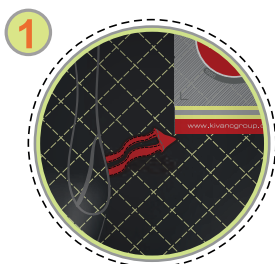




FLORIAN
832349



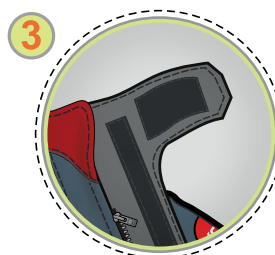




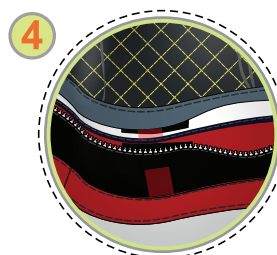
Hanger loops



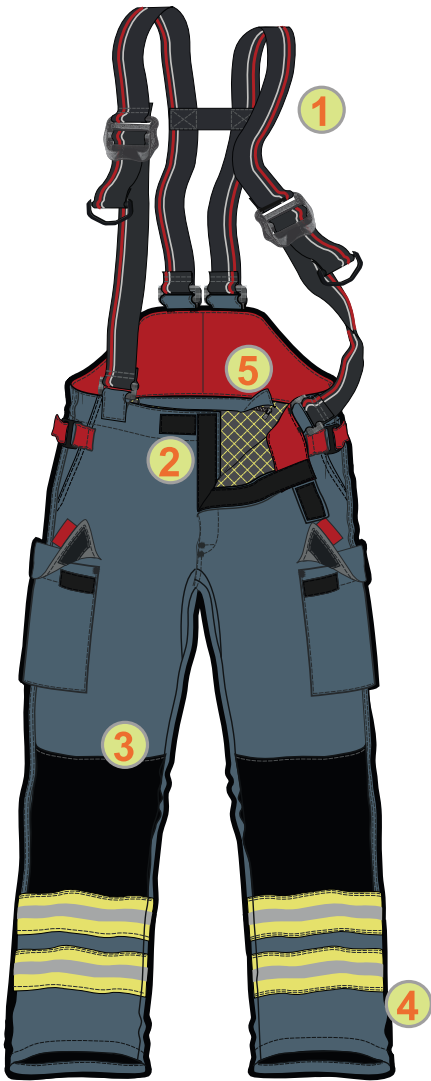
Washing label and
inner pocket details



Front flap and collar



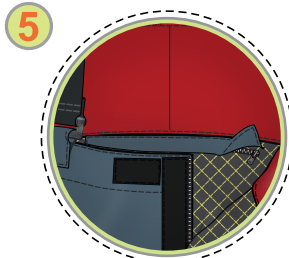
Anti-wicking fabric to
prevent fluid entry
Water drain holes
Inspection opening



Adjustable and removable
suspender system



Front flap



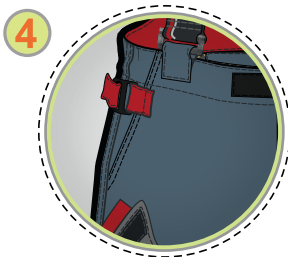
Inspection opening



Adjustable belt system



Wear resistant knee
reinforcement with
padding



Side pocket



Reflective tape details



Cargo pockets

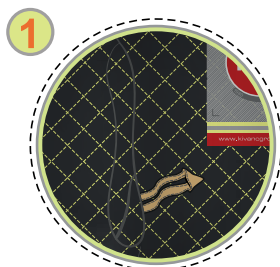




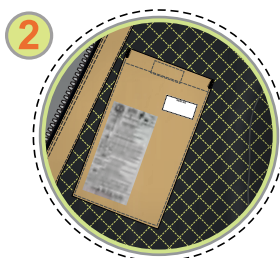
HERMES
832365



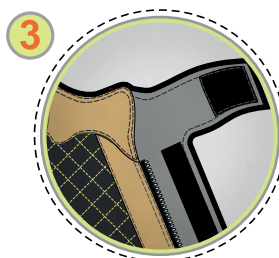




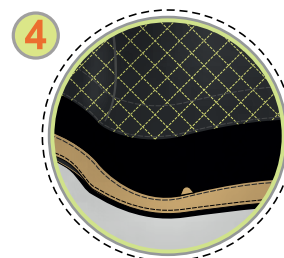
Hanger loops



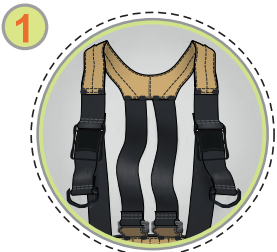
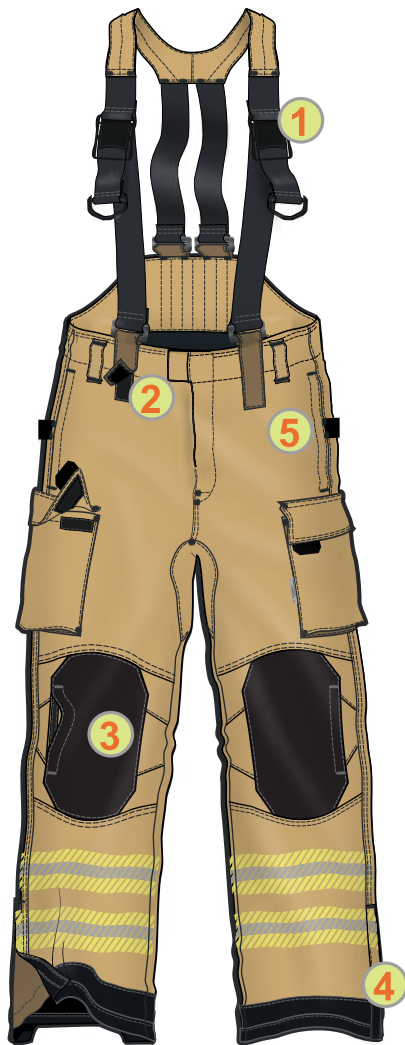
Washing label and
inner pocket details



Front flap and collar



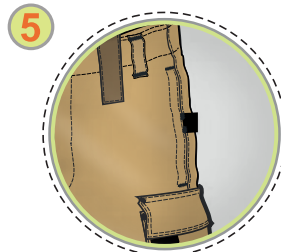
Anti-wicking fabric to
prevent fluid entry
Water drain holes
Inspection opening



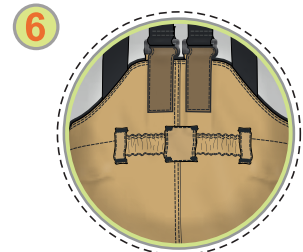
Adjustable and removable
suspender system



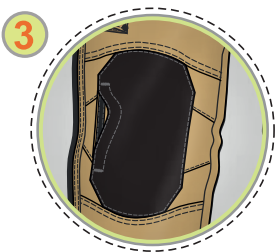
Front flap



Inspection opening



Adjustable belt system



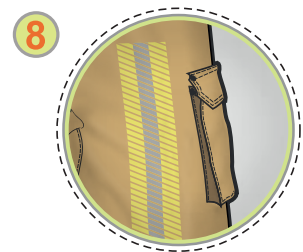
Wear resistant knee
reinforcement with
padding



Trotters detail

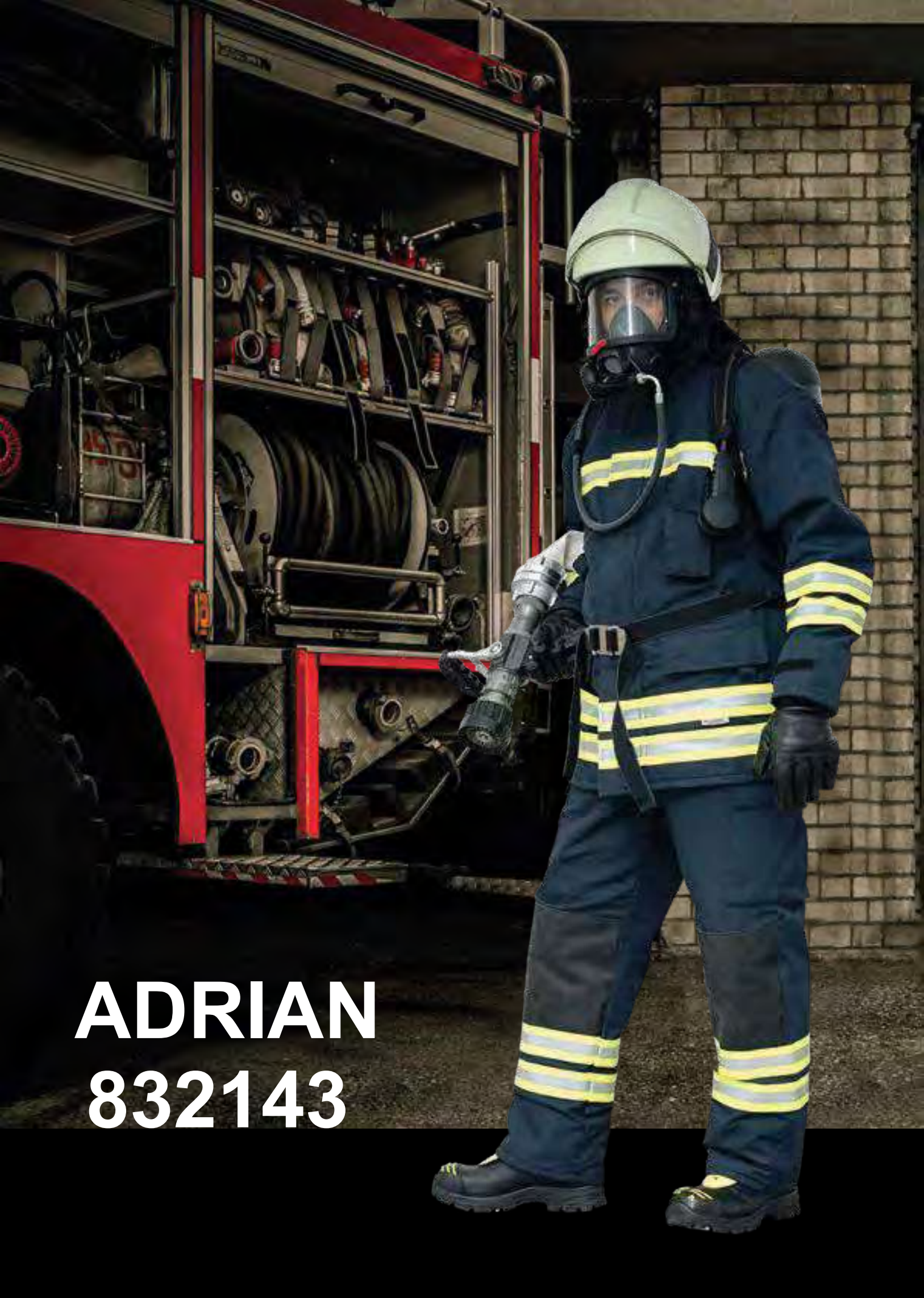


Reflective tape details



Cargo pockets

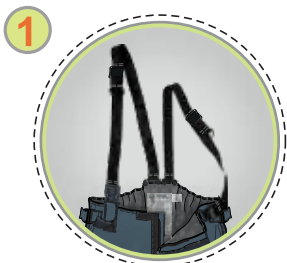




ADRIAN
832143







Adjustable and removable
suspender system



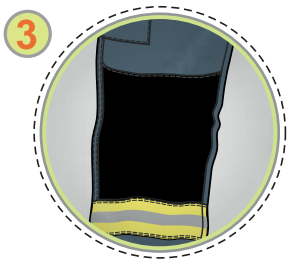
Front flap closed with
velcro tape and zipper



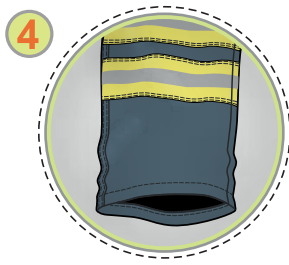
Removable suspender system
with velcro tape



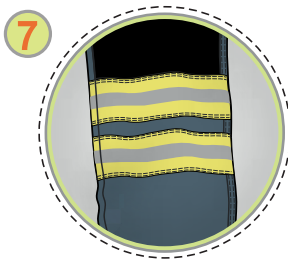
Adjustable belt system



Wear resistant knee
reinforcement



Trotter with anti-wicking



Trotter reflective
tapes details



Cargo pocket



PRIMUS
832147







Front flap closed with
velcro tape and snap button









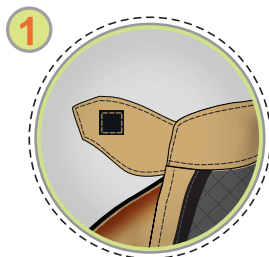
SALVATOR
832330



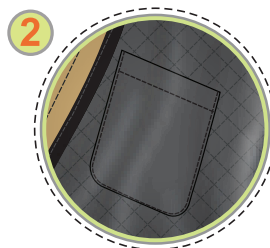




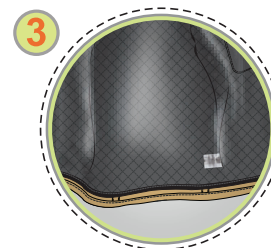
Inside View of Jacket Detachable Heat Barrier



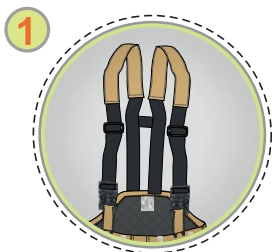
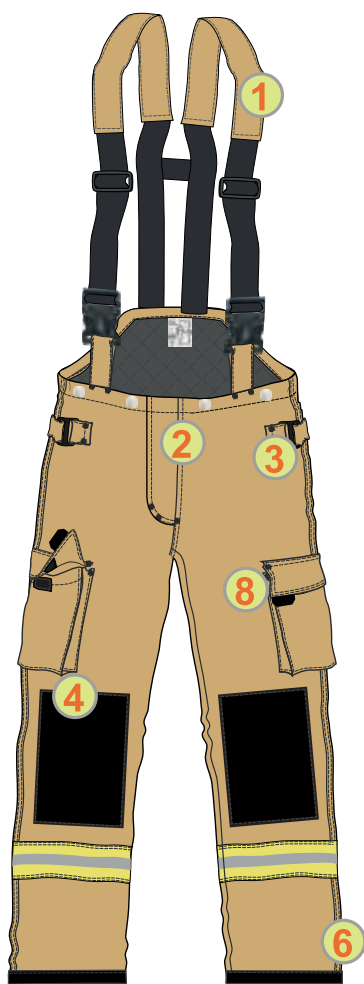
Collar flap



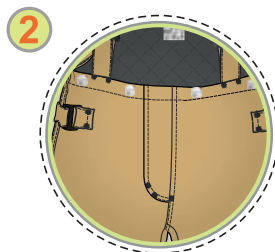
Inner pocket details



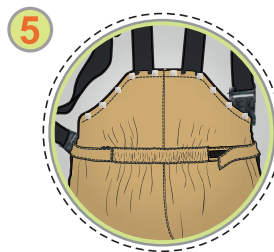
Heat barrier is fastened to outershell fabric with snap buttons



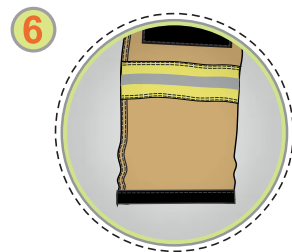
Adjustable suspender system



Front flap



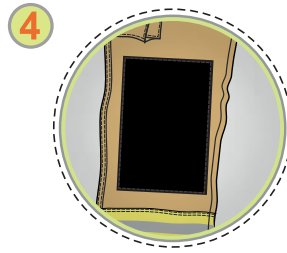
Adjustable belt system back view



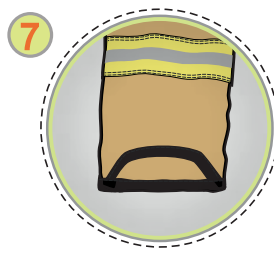
Trotter reinforcement and yellow - silver - yellow reflective tapes



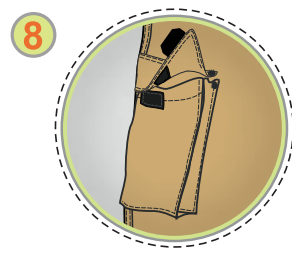
Adjustable belt system front side view



Wear resistant knee reinforcement



Back trotter detail



Cargo pockets

Inside View of Jacket Detached Heat Barrier



Heat barrier is integrated to moisture barrier. Detacheable heat barrier is attached to outershell fabric by means of snap buttons. Heat barrier has inside pockets on right and left. Only the collar of the heat barrier is attached by means of velcro tape.



Detached Moisture Barrier View

Heat barrier is integrated to moisture barrier. Detachable heat barrier is attached to outershell fabric by means of snap buttons. Only the collar of the heat barrier is attached by means of velcro tape.

Detached Moisture Barrier View

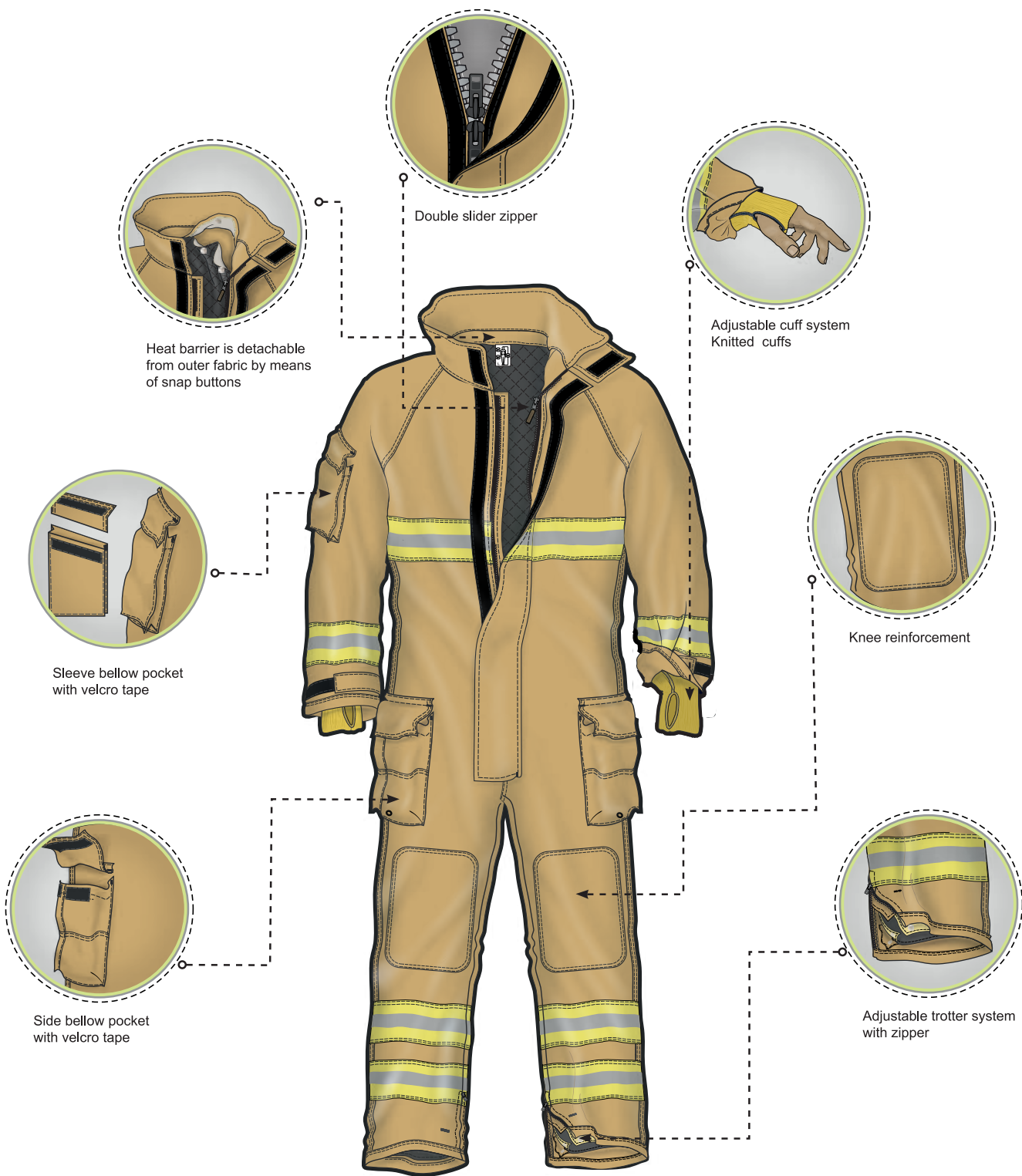
Heat barrier is integrated to moisture barrier. Detachable heat barrier is attached to outershell fabric by means of snap buttons

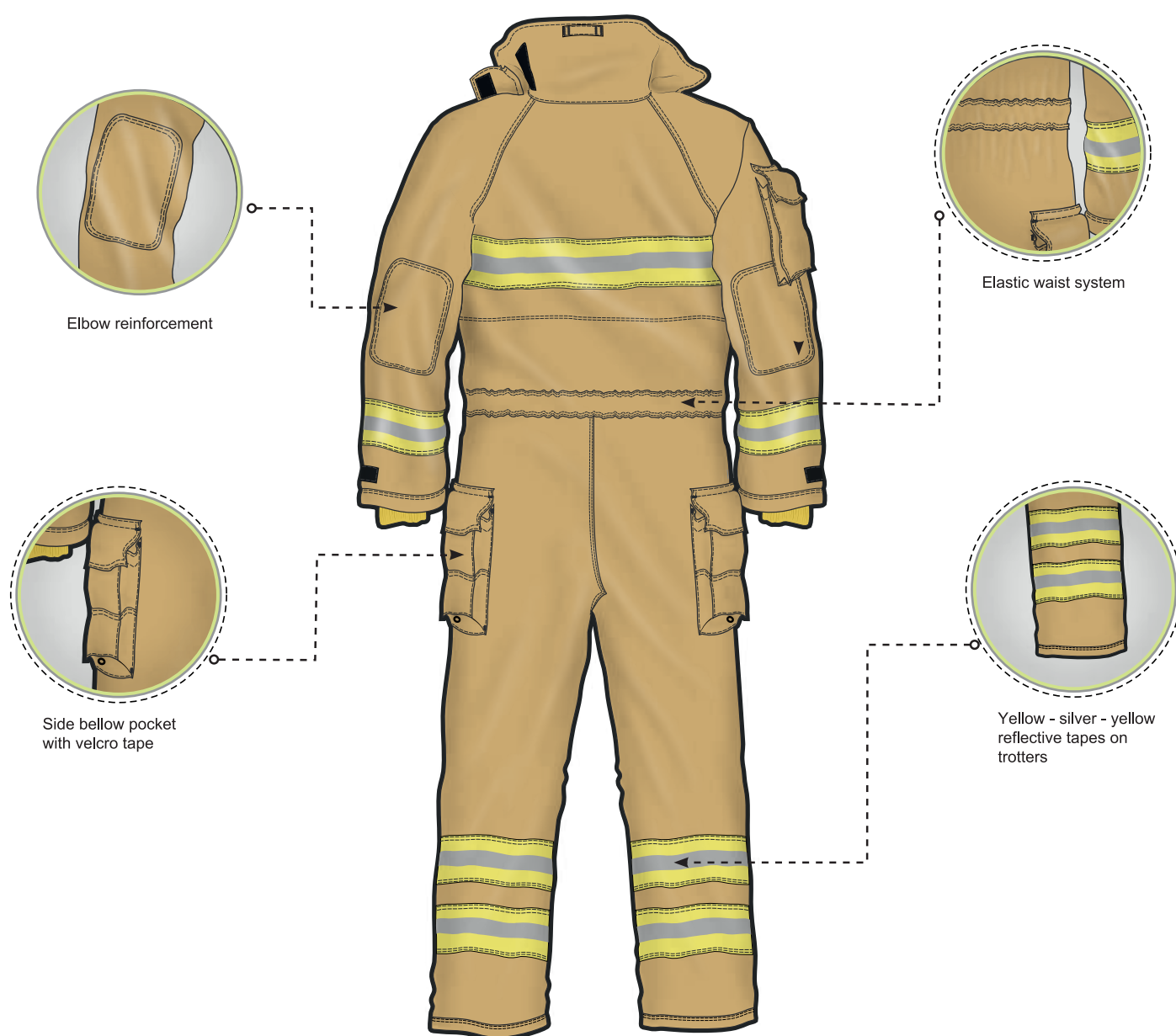




MARE
833100







Inverse View of Coverall

Heat barrier is integrated to moisture barrier. Detachable heat barrier is attached to outershell fabric by means of snap buttons. There is a detachable heat barrier within the coverall.

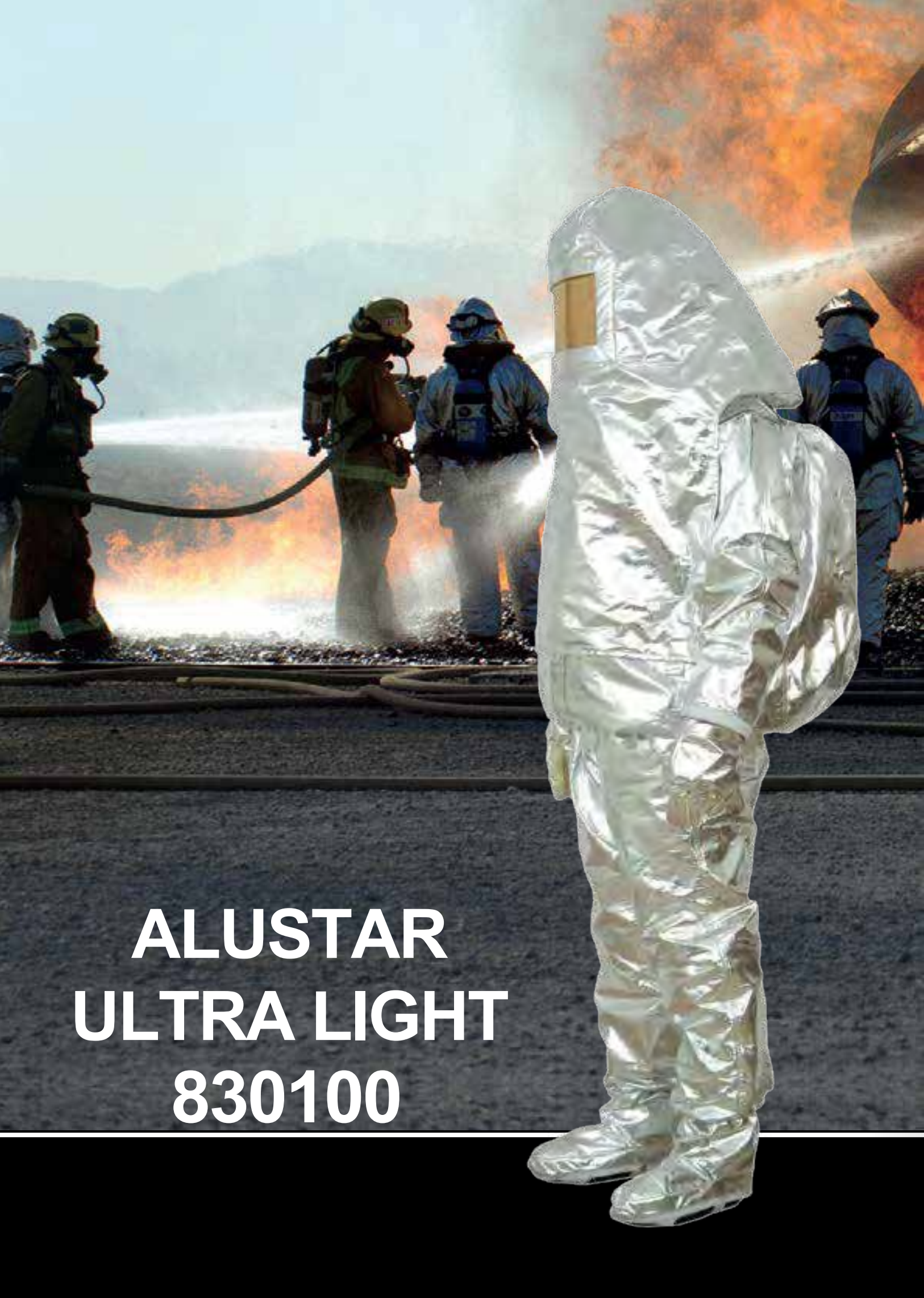


Detached Heat Barrier View

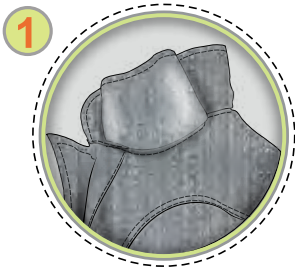
Heat barrier is integrated to moisture barrier. Detachable heat barrier is attached to outershell fabric by means of snap buttons



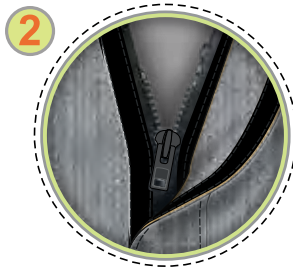




**ALUSTAR
ULTRA LIGHT
830100**



There is a front collar flap that can be adjusted to neck of person



Panic zipper is used for quick unzipping in emergency case



Knitted cuffs at sleeve hems that prevent ingress of flame and burning parts



Front flap and collar



Adjustable suspenders
to fit any body size



Front flap can be easily opened
and closed with Velcro tape
and zipper

SHROUD



827100 - Wolf

- Shroud with gold coated visor and EN 397 certified helmet

GLOVES



805100 - Tyler

- EN 1486 certified aluminized gloves

GAITERS



817100 - Harvey

- Gaiters with EN 15090 certified rubber boots

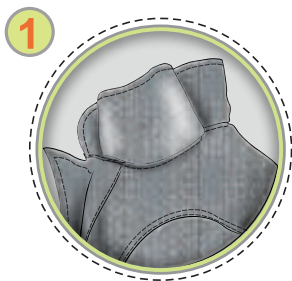
CARRYING BAG



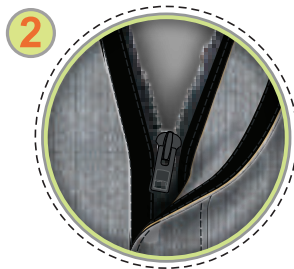
- Aluminized set contains jacket, trousers, shroud, gaiter, gloves. There are carried with this bag.



ALUSTAR
830102



There is a front collar flap that can be adjusted to neck of person



Panic zipper is used for quick unzipping in emergency case



Knitted cuffs at sleeve hems that prevent ingress of flame and burning parts



Front flap and collar



Adjustable suspenders
to fit any body size



Front flap can be easily opened
and closed with Velcro tape
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SHROUD



827100 - Wolf

- Shroud with gold coated visor and EN 397 certified helmet

GLOVES



805100 - Tyler

- EN 1486 certified aluminized gloves

GAITERS



817101 - Curtis

- Gaiters with EN 15090 certified rubber boots

CARRYING BAG



- Aluminized set contains jacket, trousers, shroud, gaiter, gloves. There are carried with this bag.



ERIC

854106



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



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

Art No:

854106

Material:

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

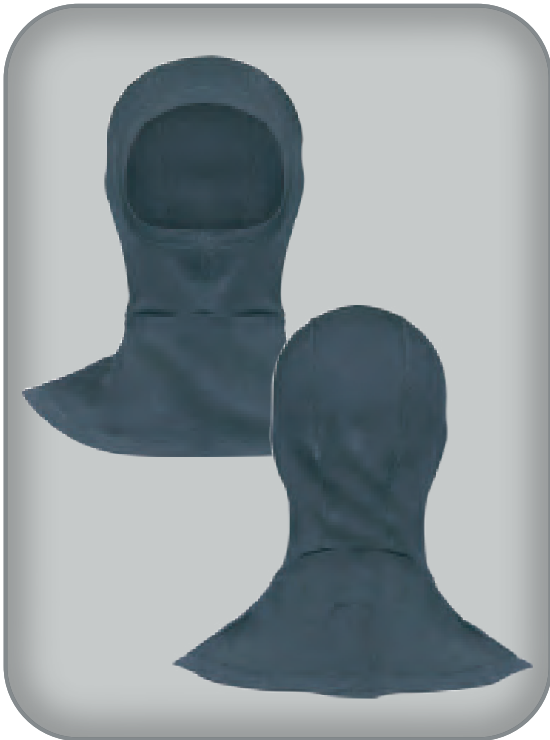
Color:

Dark Blue, Ecru

Properties:

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





NICK

Aramid

825105



EN 13911



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3
EN 1149-5



EN 61482-14 ATPV
38,9 cal/cm2

Art No:	825105
Material:	Double layer knitted fabric and 100% Aramid sewing thread
Outershell Material:	Fire-Blocker 250 g/m ² Interlock 93% Meta-aramid, 5% Para-aramid, 2% Antistatic
Inner Lining:	Fire-Blocker 250 g/m ² Interlock 93% Meta-aramid, 5% Para-aramid, 2% Antistatic
Color:	Dark Blue, Ecu
Description:	Double layer hood with ergonomic design in the form of head and neck, ergonomic face opening, special stitching preventing thickness on sewing area for comfortable skin-friendly wearing



NICK

PBI

825105



EN 13911

Art No:	825105
Material:	Double layer knitted fabric and 100% Aramid sewing thread
Outershell Material:	PBI 170 g/m ² 40% PBI, 58% Para-aramid, 2% Antistatic
Inner Lining:	Aramid / Viscose FR 220 g/m ² 50% Aramid, 50% Viscose FR
Color:	Gold
Description:	Double layer hood with ergonomic design in the form of head and neck, ergonomic face opening, special stitching preventing thickness on sewing area for comfortable skin-friendly wearing





NICK

825105

Aramid / Viscose FR



EN 13911



EN 1149-3
EN 1149-5

Art No:	825105
Material:	Double layer knitted fabric and 100% Aramid sewing thread
Outershell Material:	Aramid / Viscose FR 220 g/m ² 50% Aramid, 50% Viscose FR
Inner Lining:	Aramid / Viscose FR 220 g/m ² 50% Aramid, 50% Viscose FR
Color:	Dark blue, pink
Description:	Double layer hood with ergonomic design in the form of head and neck, ergonomic face opening, special stitching preventing thickness on sewing area for comfortable skin



BLOCK-HOOD

825126



EN 13911



EN 1149-3
EN 1149-5

Art No:	825126
Material:	Double layer knitted fabric and 100% Aramid sewing thread
Outershell Material:	Fire-Blocker 240 g/m ² Interlock 93% Meta-aramid, 5% Para-aramid, 2% Antistatic Particulate Blocking Barrier 150 g/m ²
Inner Lining:	
Color:	Dark Blue, Ecu
Description:	Particulate-protective hood helps to protect the head and neck from toxic airborne particulates, particularly soot. Particulate-protective hood is made of aramid knitted fabric on the outside and tri-layer laminate knitted fabric on the inside.





SEKUR 810220000

PBI® Matrix

EN 659:2003 + A1:2008 + AC:2009

Art No: Sekur Matrix 810220000
 Material: PBI® Matrix
 Color: Gold / Black
 Size: 6-13 according to EN 659 and EN 420
 Properties: Made of PBI Matrix fabric
 Para-aramid knitted inner lining
 Waterproof and breathable membrane
 The palm, knuckles, finger joints and fingertips are reinforced with silicon / carbon coated para-aramid fabric.
 Flame resistant photoluminescent tape with glow in the dark effect.
 Para-aramid knitted cuff



REACTOR S 810220110

FR Leather / Para-aramid

EN 659:2003 + A1:2008 + AC:2009

Art No: Reactor S 810220110
 Material: Leather / Para-aramid fabric
 Color: Black / Yellow
 Size: 6-13 according to EN659 and EN420
 Properties: Black / yellow firefighting gloves made of flame retardant leather
 It has a para aramid inner lining
 It has a breathable, waterproof membrane
 When not in use, the glove can be hung with a loop/ hook
 Adjustable elastic part between the glove and cuff ensures that the glove fits perfectly on the wrist
 It has a yellow knitted aramid cuff



TURAN 810220001

Aramid

EN 659:2003 + A1:2008 + AC:2009

Art No: 810220001
 Material: Aramid
 Color: Dark blue
 Size: 6-13 according to EN 659 and EN 420
 Properties: Made of Aramid fabric
 Para-aramid inner lining and FR cotton cuff lining
 Waterproof and breathable membrane
 The palm, back of the hand and fingertips are reinforced with silicon / carbon coated Para-aramid fabric.
 Finger joints are protected with bellow type red aramid fabric
 FR yellow-silver-yellow reflective tape and silver reflective label on the cuff for high visibility
 Adjustable strap made of dark blue aramid with Velcro closure





SEIZ®

FIREFIGHTER PREMIUM

Firefighter Premium

EN 659:2003 + A1:2008

Art No:	FIREFIGHTER PREMIUM
Material:	Knit of Para-aramid with SEIZ® Silicon Carbon
Color:	Black / Navyblue
Size:	9, 10 and 11 according to the EN 659 and EN 420
Properties:	SEIZ® Senso Touch lining system. A technology to guarantee a strong and permanent link between Para-aramid lining, GORE-TEX® membrane and the outer shell. Clasp that blocks the heat on the outer surface of the hand. Elastic shirring at wrist 3M Scotchlite™ reflective tape at cuff end

SEIZ



FIRE HERO 2

The champion among firefighter boots

CE 0197 EN 15090:2012 HI3 CI AN M SRC - Category F2A

CE EN 17249:2013 - Level 2

Art No:	507004
Material:	2,5 - 2,7 mm thick waterproof leather
Color:	Black
Leg Height:	27 cm
Inner Lining:	CROSSTECH
Sole:	01, antistatic
Size:	EU 36-47



FIRE HERO 3

The safest firefighter boot in the world - the reliable Fire Hero 3.0

CE 0193 EN 15090:2012 F2A HI3 CI AN M SRC - Category F2A

CE EN 17249:2013 - Level 2

Art No:	507006
Material:	2,0 - 2,2 mm thick waterproof leather
Color:	Black
Leg Height:	27 cm
Inner Lining:	CROSSTECH
Sole:	0,27 antistatic
Size:	EU 37-47

Boot Jack, RFID Ready



FIRE EAGLE

The new generation. Light & highly innovative.

CE 0197 EN 15090:2012 HI13 CI M SRC - Typ F2A

Art No:	507501
Material:	2,0 - 2,2 mm thick waterproof leather
Color:	Black
Leg Height:	23 cm
Inner Lining:	CROSSTECH
Sole:	017, antistatic
Size:	EU 36-47





FIRE EAGLE HIGH

The ultralight fire brigade high boot.

CE 0197 EN 15090:2012 HI13 CI AN M SRC - Typ F2A

Art No:	507504
Material:	2,0 - 2,2 mm thick waterproof leather
Color:	Black
Leg Height:	29 cm
Inner Lining:	CROSSTECH
Sole:	017, antistatic
Size:	EU 36-47



FIRE EAGLE VARIO

The athletic newcomer in slip - on design

CE 0197 EN 15090:2012 HI3 CI AN SRC - Typ F2A

Art No:	507506
Material:	2,0 - 2,2 mm thick waterproof leather
Color:	Black
Leg Height:	29 cm
Inner Lining:	CROSSTECH
Sole:	017, antistatic
Size:	EU 36-47



FIRE EAGLE PRO

Athletic firefighter boot with cut protection class 1

CE 0197 EN 15090:2012 HI13 CI M SRC - Typ F2A

CE EN ISO 17249:2013

Art No:	507511
Material:	2,0 - 2,2 mm thick waterproof leather
Color:	Black-red-yellow
Leg Height:	23 cm
Inner Lining:	CROSSTECH
Sole:	017, antistatic
Size:	EU 36-47





FIRE FLASH 2.0

The most popular service boot with lace - zipper closure

CE 0197 EN 15090:2012 HI13 CI SRC - Typ F2A

Art No:	503007
Material:	2,0 - 2,7 mm thick waterproof and breathable leather
Color:	Black
Leg Height:	28 cm
Inner Lining:	GORE - TEX Performance
Sole:	011, antistatic
Size:	EU 36-47

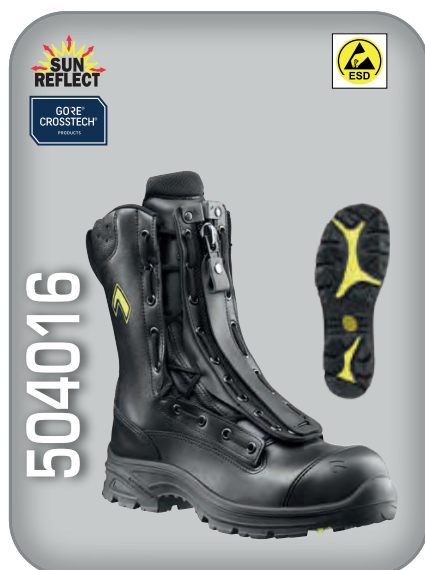


FIRE FLASH GAMMA

The most popular lace-zipper boot with class 2 protective cut-resistance

CE 0197 EN 15090:2012 HI3 CI SRC - Typ F2A

Art No:	503005
Material:	2,5 - 2,7 mm thick waterproof and breathable leather
Color:	Black
Leg Height:	28 cm
Inner Lining:	GORE - TEX Performance
Sole:	011, antistatic
Size:	EU 36-47



SPECIAL FIGHTER PRO

Low firefighter boot with CROSSTECH

CE 0197 EN 15090:2012 HI13 CI SRC - Typ F2A

Art No:	504016
Material:	2,0 - 2,2 mm thick waterproof leather
Color:	Black
Leg Height:	21 cm
Inner Lining:	CROSSTECH
Sole:	017, antistatic
Size:	EU 36-47





FLORIAN PRO

The service boot with the comfort of a lace boot

CE 0197 EN 15090:2012 HI13 CI SRC - Typ F2A

Art No:	501501
Material:	2,5 - 2,7 mm thick waterproof and breathable leather
Color:	Black
Leg Height:	30 cm
Inner Lining:	GORE - TEX Performance
Sole:	011, antistatic
Size:	EU 36-47



FIREMAN YELLOW

The model for first - time users

CE 0197 EN 15090:2012 HI3 CI SRC - Typ F2A

Art No:	500004
Material:	2,4 - 2,76 mm thick waterproof leather
Color:	Black
Leg Height:	30 cm
Inner Lining:	Breathable inner liner
Sole:	011, antistatic
Size:	EU 36-47



RUBBER BOOT HARVIK 9687L

Boots have 18kV Electric Shock Resistance

EN ISO 20345:2011 SB P E FO CI HI HRO SRA

EN 15090:2012 F2 HI3 P CI SRA

EN 50321-1:2018-Class 0

Art No:	9687L
Color:	Black / Yellow
Type of Construction:	Vulcanized Rubber Upper and Sole
Last / Sole Pattern:	VSV / NJV
	Structural fire fighting
	General fire rescue
	Bush fire fighting
Size:	EU 36-47





FHR 005

Slip - on leather boots for firefighters type F2A model

EN 15090:2012 HI13 SRC - Typ F2A

Art No:	FHR 005
Material:	Smooth (005) or pressed (005 PL) leather
Color:	Black
Leg Height:	30 cm
Inside:	IBISAFE - a sole insert made of Kevlar. TE - POR - a waterproof and air - permable membran
Sole:	NITRIL - made of black vulcanized rubber
Size:	EU 37-48



FHR 006

Leather boots for firefighters type F2A model with zippers and double fastening system

EN 15090:2012 HI13 SRC - Typ F2A

Art No:	FHR 006
Material:	Smooth (006) or pressed (006 PL) leather
Color:	Black
Leg Height:	30 cm
Inside:	IBISAFE - a sole insert made of Kevlar. TE - POR - a waterproof and air - permable membran. JADO - a microventilation system
Sole:	NITRIL - made of black vulcanized rubber
Size:	EU 37-48

HELMET - VULCAN NEO

Fire helmet Vulcan NEO is an innovative design. It is made entirely of composites by direct injection method. It has excellent protection, use convenience and design. It complies with Regulation (EU) 2016/425 and the following harmonised standards:

- EN 443:2008 Helmets for firefighting in buildings and other structures.
- EN 16471:2014 Firefighters helmets. Helmets for wildland fire fighting.
- EN 16473:2014 Firefighters helmets. Helmets for technical rescue.
- EN 50365:2002 Electrically insulating helmets for use on low voltage installations,

confirmed by a certificate issued by Notified Body No. 0497 CSI S.p.A.
 Certificate of admittance issued by Notified Body No. 1438 CNBOP-PIB.



HELMET - CALISIA VULCAN type CV 102

The Calisia Vulcan helmet for firefighters has been designed with the growing demands and needs of firefighters in mind. It is intended for firefighting in buildings and other structures, wildland firefighting and technical rescue. The new solutions are aimed most of all to improve its performance characteristics and, for example, to reduce the load on the firefighter's hands during rescue operations. The helmet is made using the latest technologies and the best materials. This makes it light and gives it excellent protective, performance, and structural characteristics. The helmet guarantees the highest level of safety even in the hardest conditions.



Safety in extreme conditions

- Resistance of the shell to impact, puncture, and lateral compression
- Full protection in low and high temperatures, resistance to flame and heat streams (tested at the temperature of 1000 °C).
- Resistance to melted iron.
- The eye and face shields (goggles and visor) meet the requirements set out in the EN 14458:2018, EN 171:2002, and EN 166:2001 standards, are resistant to high temperatures, flames, chemicals, and ensure protection against infrared radiation.
- 3M® reflective elements ensure good visibility of the firefighter.

Maximum comfort

- The visor can be lowered over a breathing mask, is suitable for persons wearing corrective glasses, and can be quickly and easily replaced.
- The quick and optimized fit and the stable position of the helmet on the user's head are achieved due to:
 - the wide range of circumference adjustment (47-68 cm);
 - the large knob that can be turned even in gloves;
 - the possibility to adjust the head circumference without the need to take the helmet off, which is important when the user puts on a breathing mask;
 - convenient adjustment of the position angle and the wearing height.
- The neck protectors are resistant to thermal radiation and flames and are made of fire-resistant materials; four models are available:
 - a neck protector made of non-combustible fabric (a short version and a long version that protects the nape and the larynx);
 - a neck protector made of leather;
 - a neck protector made of metalized fabric.
- Finishing elements which improve comfort: a set of Nomex® cushions and liners, soft and comfortable interior inside the helmet that prevents abrasions and which is made of textile or natural leather, and a comfortable silicone chin pad.
- A broad range of accessories which are suitable for use with breathing masks and torches, and which allow wireless communication systems.
- Suitable for use with torches due to a universal set of torch adapters.
- Full range of adjusting the position angle of the torch even with the breathing mask on (upper mount), and full range of installing torches on both sides of the shell and in the lower and upper part of the shell.
- High degree of customization with rank and unit insignias.
- Shell available in any color, including photoluminescent and chrome-coated

Available models

- MO – with goggles and a metalized visor.
- TO – with goggles and a transparent visor.
- T – with a transparent visor.



TXS™

Shell Material:	PPSU Thermoplastic
Weight inclusive battery:	0,75 kg
Dimensions (L W H):	180 x 120 x 117 mm
Power Source:	Lithium-ion rechargeable and replaceable Battery
Battery Capacity:	3500 mAh
Operating Time:	6 h
Image Refresh Rate	30 Hz
Temperature Sensivity:	0,06° C
Dynamic Range:	550° C
Lens Window:	Glove-cleanable germanium window with anti-reflective coating
Field of View:	40° V x 50° H
Focus:	0.8 m to infinity
Display Type:	Digital, Liquid Crystal Display (LCD)
Display Size:	3,5"/89 mm Diagonal TFT Active Matrix
Image Resulation:	320x240
Pixel Format:	—
Brightness:	—
Heat Test:	150° C for 15 minutes 260° C for 5 minutes
Water Resistance:	IEC 60529 IP67
Warranty camera:	5 years
Warranty battery:	2 years



NXT Bullard extrem

Shell Material:	Ultem® Thermoplastic
Weight inclusive battery:	1,08 kg
Dimensions (L W H):	208 x 117 x 137 mm
Power Source:	Lithium-ion Rechargeable Battery
Battery Capacity:	6400 mAh
Operating Time:	7-8 h
Image Refresh Rate	60 Hz
Temperature Sensivity:	0,03° C
Dynamic Range:	600° C
Lens Window:	Germanium
Field of View:	40° H x 31° V
Focus:	1 m to infinity
Display Type:	Digital, Liquid Crystal Display (LCD)
Display Size:	3,5"/89 mm Diagonal TFT Active Matrix
Image Resulation:	320x240
Pixel Format:	RGB
Brightness:	500 cd/m² (minimum)
Heat Test:	150° C for 15 minutes 260° C for 5 minutes 1000° C Short time
Water Resistance:	IP67
Warranty camera:	5 years
Warranty battery:	5 years





QXT Bullard *extrem*

Shell Material:	Ultem® Thermoplastic
Weight inclusive battery:	1,08 kg
Dimensions (L W H):	208 x 117 x 137 mm
Power Source:	Lithium-ion Rechargeable Battery
Battery Capacity:	6400 mAh
Operating Time:	7-8 h
Image Refresh Rate	60 Hz
Temperature Sensivity:	0,03° C
Dynamic Range:	600° C
Lens Window:	Germanium
Field of View:	40° H x 31° V
Focus:	1 m to infinity
Display Type:	Digital, Liquid Crystal Display (LCD)
Display Size:	3,5"/89 mm Diagonal TFT Active Matrix
Image Resolution:	320x240
Pixel Format:	RGB
Brightness:	500 cd/m² (minimum)
Heat Test:	150° C for 15 minutes 260° C for 5 minutes 1000° C Short time
Water Resistance:	IP67
Warranty camera:	5 years
Warranty battery:	5 years



LDX Bullard *extrem*

Shell Material:	Ultem® Thermoplastic
Weight inclusive battery:	0,89 kg
Dimensions (L W H):	198 x 132 x 109 mm
Power Source:	NiMH Rechargeable Battery
Battery Capacity:	1650 mAh
Operating Time:	2 h
Image Refresh Rate	60 Hz
Temperature Sensivity:	0,03° C
Dynamic Range:	600° C
Lens Window:	Germanium
Field of View:	30° V x 40° H
Focus:	Fixed / 1 m to infinity
Display Type:	Digital, Liquid Crystal Display (LCD)
Display Size:	3,5" Diagonal TFT Active Matrix
Image Resolution:	320x240
Pixel Format:	RGB
Brightness:	500 cd/m² (minimum)
Heat Test:	150° C for 15 minutes 260° C for 5 minutes
Water Resistance:	IP67
Warranty camera:	5 years
Warranty battery:	--





ECO Bullard extrem

Shell Material:	Ultem® Thermoplastic
Weight inclusive battery:	0,86 kg
Dimensions (L W H):	196 x 132 x 109 mm
Power Source:	NiMH Rechargeable Battery
Battery Capacity:	1650 mAh
Operating Time:	2 h
Image Refresh Rate	30 Hz
Temperature Sensivity:	0,05° C
Dynamic Range:	600° C
Lens Window:	Germanium
Field of View:	34° H x 23° V
Focus:	1 m to infinity
Display Type:	Digital Liquid Crystal Display (LCD)
Display Size:	2,75" Diagonal TFT Active Matrix
Image Resulation:	---
Pixel Format:	RGB
Brightness:	500 cd/m² (minimum)
Heat Test:	150° C for 15 minutes 260° C for 5 minutes 1000° C Short time
Water Resistance:	IP67
Warranty camera:	5 years
Warranty battery:	2 years



T3X Bullard extrem

Shell Material:	Ultem® Thermoplastic
Weight inclusive battery:	1,100 kg
Dimensions (L W H):	175 x 100 x 140 mm
Power Source:	NiMH Rechargeable Battery
Battery Capacity:	1650 mAh
Operating Time:	5 h
Image Refresh Rate	60 Hz
Temperature Sensivity:	0,03° C
Dynamic Range:	600° C
Lens Window:	Germanium
Field of View:	40° H x 31° V
Focus:	Fixed / 1 m to infinity
Display Type:	Digital, Liquid Crystal Display (LCD)
Display Size:	3,5" Diagonal TFT Active Matrix
Image Resulation:	---
Pixel Format:	RGB
Brightness:	500 cd/m² (minimum)
Heat Test:	150° C for 15 minutes 260° C for 5 minutes 1000° C Short time
Water Resistance:	IP67
Warranty camera:	5 years
Warranty battery:	2 years





Bullard
extrem

Shell Material:	Ultem® Thermoplastic
Weight inclusive battery:	1,400 kg
Dimensions (L W H):	203 x 147 x 145 mm
Power Source:	NiMH Rechargeable Battery
Battery Capacity:	1650 mAh
Operating Time:	4-5 h
Image Refresh Rate	60 Hz
Temperature Sensivity:	0,03° C
Dynamic Range:	600° C
Lens Window:	Germanium
Field of View:	40° H x 31° V
Focus:	Fixed / 1 m to infinity
Display Type:	Digital, Liquid Crystal Display (LCD)
Display Size:	4,3" Diagonal TFT Active Matrix
Image Resulation:	---
Pixel Format:	RGB
Brightness:	600 cd/m² (minimum)
Heat Test:	150° C for 15 minutes 260° C for 5 minutes 1000° C Short time
Water Resistance:	IP67
Warranty camera:	5 years
Warranty battery:	2 years





ULTRA LIGHT SAFER[®]

Ultralight SAFER[®] Composite Cylinders

Ultralight SAFER[®] composite cylinders have been developed with Polish science institutes.

The machines and the software used in a production process are designed and developed in accordance with the design criteria which are perfectly adapted to the production requirements.

The cylinders are manufactured in an automatic quality control process and are subject to comprehensive tests under TÜV SÜD supervision.

The highest quality materials guarantee the highest SAFER[®] cylinder quality.

PET LINER

Use of PET liner SAFER[®] cylinders has allowed the production of ultralight composite cylinders.

The liner protects the cylinder against reaction with gas, and thus prevents corrosion. The gases stored in cylinders are kept clean and are safe for cylinder users.

PET features high barrier properties that guarantee safe gas storage in SAFER[®] cylinders.

QS II

QS II is a product platform based on high performance system products that can be adapted for different needs. The harness concept is combined with the proven performance of the Interspiro pressure regulator and breathing valve.

To ensure optimal comfort for different body lengths, the harness can easily be adjusted, even when the cylinder is attached and when the SCBA is mounted in a fire truck.

The QS II is available for single cylinder, twin cylinders and cylinder pack. It can also be equipped with the optional Cylinder Quick Coupling (QC).

- 1** Maximum mobility: Hip belt and shoulder straps move independently of each other.
- 2** Wide range of face mask variants.
- 3** Easy adjustment to body size. Large rescue handle.
- 4** Small and lightweight warning whistle.
- 5** Easy to maintain plug-in pressure regulator.
- 6** Optimized weight distribution with body-shaped hip belt.

INTERSPIRO

SPIROMATIC 90U

SPIROMATIC 90U is a basic breathing apparatus for firefighting, and it is excellent for industrial and maritime environments. The pressure regulator (1st stage regulator) is identical to that used in other SCBA series from Interspiro. The harness is equipped with padded shoulder straps and easy-to-adjust hip belt buckles.

The Spiromatic 90U configurations are CE approved according to European product standards and approved according to the Marine Equipment Directive ("ship wheel mark"). They are delivered as SCBA configurations including face mask or as basic models excluding the face mask and breathing valve.

The Spiromatic 90USA-S configurations are NIOSH approved according to U.S. product standards. The 90USA-S is delivered with the S face mask, and is available in one high pressure (HP) version for 4500 psi and one low pressure (LP) version for 2216 psi.

- 1** Padded shoulder straps with integrated hose holders.
- 2** Carrying handle.
- 3** Easy to maintain plug-in pressure regulator.

INTERSPIRO





PERSONAL PROTECTIVE EQUIPMENTS



FIREFIGHTING and SEARCH RESCUE BOOTS

Boots are certified according to EN 15090 firefighter standard. They are ergonomic, heat insulated, protective against ankle sprain, steel toed models are available.



FIREFIGHTING HELMETS

Helmets are certified according to EN 443 standards and have high temperature resistance as well as they ensure visibility in dark environments and at night by emitting light thank to their photo luminescent feature.



BREATHING APPARATUS

Back plates have durability to cope with challenging conditions. Each component has been selected and designed carefully. Carbon/Para-Aramid composite cylinder ensures comfort due its lightness.



FIREFIGHTING GLOVES

Fabric and leather gloves that are certified to EN 659 standards are protective against high temperatures, flame and external factors and are ergonomic.



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