İŞÇİ SAĞLIĞI TEÇHİZATI
SAFETY LTD

About Us

Since 1979, we produce equipments for;

OCCUPATIONAL HEALTH AND SAFETY
FIRST AID & CIVIL DEFENSE
FIRE & CBRN & PERSONAL PROTECTION.

Our headquarters and factory are located in Ankara. With our network of distributors spread all over the country and worldwide we distribute our best and high quality service to customers in the shortest time.

Our company has TS EN ISO 9001 Quality Certificate. All our products are certified according to international standards. With the high quality products we manufacture, our export sales increase day by day.

What We Do

We provide variety of special services you may need.

Consultation

IST provides complete information on the design, use, supply and care of industrial heat and flame protective workwear / underwear / balaclavas, electric arc protective clothings, fireman suits, aluminized fire proximity/entry suits, air cooled kiln entry clothings, functional and thermal underwears/t-shirts. Our experienced team will provide you the best economical solution with customized size dimensions, preliminary study and technical drawings.

Quality and Safe Product Selection

Our product range has a wide range of standard and optional designs. We provide special protective clothing solutions suitable for work areas, that do not compromise protection while providing ease of movement.

Special Engineering Solutions

Each garment is designed for different purposes and has different certificates. A protective garment cannot substitute another. The most suitable and most appropriate solution must be determined according to the protection level and area of use. In IST® textile production workshop, fabrics are cut by using licensed cloth spreading software to combine the best designs with the best stitching properties with same pattern in all sizes and to prevent the possibility of encountering an error. IST® is fully equipped to offer and produce standard and special designed garments according to your needs.

Complementary Accessories Selection

Complementary elements of protective clothing are of great importance for full protection. You can easily choose and gather the most suitable complementary materials that can be specially used with the protective clothing you purchased such as; personal protective equipments like head, face, hand, respiratory, foot protectors, from our range. Our expert team will guide you in choosing your protective garment and choosing a complementary accessory with the most appropriate international standards for your working area.

Pre-Sales Support and Modelling

Before production, we design your protective clothing in our advanced technical drawing softwares according to your preferences and submit to your approval. Protective clothings that are purchased because of their high protection levels, but are unsuitable for the working facility may not provide adequate protection and may result in high costs for your company. Appropriate personal protective equipment should be determined as a result of risk analysis by experts. In this regard, our technical team will work in coordination with experts in your facility.

Standards and Certification

All our products are fully tested by notified bodies in Europe according to the relevant European standards and certified according to the relevant EN standards. In selection of protective clothings, labels inside the suit must be examined well, labels must be printed in accordance with European standards. The information on the label must be verified with certificates. In this regard, our expert technical team will provide consultation to you valuable customers.

After-Sales Support

Our company provides the necessary information, training and solutions to its customers on the maintenance, use and periodic controls of purchased products. Our company gives repair services for all standard and/or special design protective clothings that are damaged, or have worn parts. In this sense, it is aimed that the user can use the existing product for a long time instead of buying new product. Our sales representatives can provide training on the use of the products. All of our products are warranted against production and workmanship defects for a period of 24 months.

Please contact our sales department for detailed information about our services.

For such serious equipments, working with an experienced company that values human health and manufactures in accordance with international standards will be the right choice for your facility, your employees and your safety.

INDEX

FYRPRO®

FIRE FIGHTING SUITS

Fire fighting involves many risks that affect human health negatively. To get rid of these risks, personal protective clothings must be preferred, which are classified in 89/686/EEC Personal Protective Equipment Directive, which provides high protection.

FYRPRO® series clothings are professional technical clothings that must be used by trained professional personnel. Provides protection by keeping heat stress from high ambient temperature below the limit that human metabolism can tolerate, as protects human body from flames.

To reduce potential risks;

- Before use, an appropriate training should be taken and an exercise should be performed.
- The most suitable personal protective equipment should be selected according to the working conditions.
- Usage limits of EN standards, efficiency and design information should be known.

FYRPRO® series fireman garments are manufactured to reduce the risks of firefighting according to the related standard: "EN 469 Protective clothing for firefighters - Performance requirements for protective clothing for firefighting". For proper selection of garments according to the requirements of different risk groups, alternative layer systems are designed.

TESTS	TEST METHOD	PERFORMANCE LEVELS			
		Level 1	Marking	Level 2	Marking
Heat transfer (Flame)	EN 367	$HTI_{24} \geq 9$sec $HTI_{24} - HTI_{12} \geq 3$sec	X,1	$HTI_{24} \geq 13$sec $HTI_{24} - HTI_{12} \geq 4$sec	X,2
Heat transfer (Radiant)	EN ISO 6942	$RHTI_{24} \geq 10$sec $RHTI_{24} - RHTI_{12} \geq 3$sec	X,1	$RHTI_{24} \geq 18$sec $RHTI_{24} - RHTI_{12} \geq 4$sec	X,2
Resistance to water penetration	EN 20811	Level 1<20kPa	Y1	Level 2 ≥ 20kPa	Y2
Water vapour resistance	EN 31092	30m² Pa/W<Level1< 45m² Pa/W	Z1	Level 2 ≤30 m² Pa/W	Z2

According to these performances, fire fighting suits are divided into two; Level 1 and Level 2. Level 2 suits have higher performances than Level 1 suits. To have Level 2 protection for a suit, all Xf, Xr, Y and Z levels must be submitted as grade 2. If one of them falls as Level 1, suit will be Level 1 totally. As mentioned in 89/686/EEC Personel Protective Equipment Directive, fire fighting suits belong to Category III, due to the complex design intended to protect against mortal danger or against dangers that may seriously and irreversibly harm the health, the immediate effects of which the designer assumes the user cannot identify in sufficient time.

Other tests according to the EN 469 standard that the FYRPRO® series fire fighting suits succeed at are given in the next page.

Protective clothing for fire fighters • Performance requirements for protective clothing for fire fighting

EN 469

MATRIX

Model	EN 469		MED	Page
	Level 1	Level 2		
FYRPRO® 440		✓	✓	3
FYRPRO® 630	✓		✓	5
FYRPRO® 630 C	✓		✓	5
FYRPRO® 635	✓		✓	6
FYRPRO® 635 C	✓		✓	6
FYRPRO® 640		✓		4
FYRPRO® 640 C		✓		4
FYRPRO® 650		✓	✓	3

FYRPRO® 440

Size : XS - 4XL
(Jacket - Trousers)

Xf2
Xr2
Y2
Z2

CE

CAT III

EN 469

	NOMEX® Outershell Tough
Outer Layer	%75 NOMEX® • %23 KEVLAR® • %2 P140
Moisture Barrier	FR Knitted Fabric • PU Membrane
Heat Barrier	% 100 Aramid Felt
Inner Liner	% 50 Aramid • % 50 Viscose FR

3M Scotchlite™ Reflective Material

YSL Reflective Material

Color Options

New

FYRPRO® 650

Size : XS - 4XL
(Jacket - Trousers)

Model 1 Model 2

Xf2
Xr2
Y2
Z2

CE

CAT III

EN 469

Outer Layer	%93 Metaaramid • %5 Paraaramid • %2 Antistatic Fiber
Moisture Barrier	Aramid Felt • PU Membrane
Heat Barrier	% 100 Aramid Felt
Inner Liner	% 50 Aramid • % 50 Viscose FR

3M Scotchlite™ Reflective Material

YSL Reflective Material

Color Options

FYRPRO® 640

Size : XS - 4XL
(Jacket - Trousers)

Xf2
Xr2
Y2
Z2

EN 469

CE
CAT III

Outer Layer	%93 Metaaramid • %5 Paraaramid • %2 Antistatic Fiber
Moisture Barrier	Nonwoven Aramid / Melamine • PU Membrane
Heat Barrier	% 100 Aramid Felt
Inner Liner	% 50 Aramid • % 50 Viscose FR

3M Scotchlite™ Reflective Material

YSL Reflective Material

Color Options

FYRPRO® 640 C

Size : XS - 4XL
(Coverall)

Xf2
Xr2
Y2
Z2

EN 469

CE
CAT III

Outer Layer	%93 Metaaramid • %5 Paraaramid • %2 Antistatic Fiber
Moisture Barrier	Nonwoven Aramid / Melamine • PU Membrane
Heat Barrier	% 100 Aramid Felt
Inner Liner	% 50 Aramid • % 50 Viscose FR

3M Scotchlite™ Reflective Material

YSL Reflective Material

Color Options

FYRPRO® 630

Size : XS - 4XL
(Jacket - Trousers)

Xf2
Xr2
Y1
Z2

CE

CAT III

EN 469

Outer Layer	%93 Metaaramid • %5 Paraaramid • %2 Antistatic Fiber
Heat Barrier	% 100 Aramid Felt
Inner Liner	% 50 Aramid • % 50 Viscose FR

3M Scotchlite™ Reflective Material

YSL Reflective Material

Color Options

FYRPRO® 630 C

Size : XS - 4XL
(Coverall)

Xf2
Xr2
Y1
Z2

CE

CAT III

EN 469

Outer Layer	%93 Metaaramid • %5 Paraaramid • %2 Antistatic Fiber
Heat Barrier	% 100 Aramid Felt
Inner Liner	% 50 Aramid • % 50 Viscose FR

3M Scotchlite™ Reflective Material

YSL Reflective Material

Color Options

FYRPRO® 635

Size : XS - 4XL
(Jacket - Trousers w/o reflective tapes)

Xf2
Xr2
Y1
Z2

CE CAT III

EN 469

Outer Layer	%93 Metaaramid • %5 Paraaramid • %2 Antistatic Fiber
Heat Barrier	% 100 Aramid Felt
Inner Liner	% 50 Aramid • % 50 Viscose FR

Color Options

FYRPRO® 635 C

Size : XS - 4XL
(Coverall w/o reflective tapes)

Xf2
Xr2
Y1
Z2

CE CAT III

EN 469

Outer Layer	%93 Metaaramid • %5 Paraaramid • %2 Antistatic Fiber
Heat Barrier	% 100 Aramid Felt
Inner Liner	% 50 Aramid • % 50 Viscose FR

Color Options

OPTIONAL FEATURES

SILICON KEVLAR REINFORCEMENT ON ELBOWS

SILICON KEVLAR REINFORCEMENT ON KNEES / PROTECTIVE PED

SIDE BELLOW POCKETS WITH FLAP

REMOVABLE VELCRO FOR WRITING ON BACK

POCKETS IN DESIRED DIMENSIONS AND AT DESIRED LOCATION

REINFORCEMENT ON SHOULDERS

EYELETS ON POCKETS

SILVER REFLECTIVE WRITING ON BACK

ARAMID FELT REINFORCEMENTS

ANTIWICKING BARRIERS AT LEG ENDS AND CUFFS

HIGH - WAISTED TROUSERS

STANDARD FEATURES

PROTECTIVE NECK BAND AND PANIC TYPE ZIPPER FOR EMERGENCY SITUATIONS

VELCRO FOR NAME TAGS

METAL HOOK FOR HANGING GLOVES

SPECIAL BELLOW RADIO POCKET

RADIO / FLASHLIGHT BAND

ARAMID, SPECIAL SEWING, KNITTED THUMBHOLE WRIST

ELASTIC WAIST BAND ON TROUSERS

ELASTIC / ADJUSTABLE SUSPENDERS OF TROUSERS

ZIPPERS ON LEG ENDS

ADJUSTABLE CUFFS

UNDER ARM GUSSETS FOR FREEDOM OF MOVEMENT

PRE-BENT KNEES AND ELBOWS FOR FREEDOM OF MOVEMENT

SIZE CHART

Size (cm)	Person's Height	Person's Chest	Person's Waist
S 46/48	164 - 170	88 - 96	84 - 92
M 50/52	170 - 176	96 - 104	92 - 100
L 54/56	176 - 182	104 - 112	100 - 108
XL 58/60	182 - 188	112 - 120	108 - 116
XXL 62/64	182 - 188	120 - 128	116 - 124

TOLERANCE ± % 2 Prepared according to EN 340/EN 13688 standards.

Rising Trend

GOLD

COLOR

FYRPRO® OUTER LAYERS

APPLICABLE MODELS

- FYRPRO® 440
- FYRPRO® 630
- FYRPRO® 630 C
- FYRPRO® 635
- FYRPRO® 635 C
- FYRPRO® 640
- FYRPRO® 640 C
- FYRPRO® 650

FIREMAN EQUIPMENTS

- Fireman Helmets
- Fireman Gloves
- Fireman Boots
- Self Contained Breathing Apparatus
- Escape Masks
- Fireman Raincoat and Other Complementary Equipments
- Knitted Fireman Products

PAB FIRE HT-04 / PAB FIRE COMPACT

FIRE HT-04

Heat and flame resistant composite outer shell

Heat resistant anti-fog anti-scratch visor

Aluminised carbon fiber neck protector

Weight: 1500 gr

ATEX certified.

P/N : 14020930

CE EN 443 / EN 14458 / EN 166 MED Approved

FIRE HT-04

Heat and flame resistant composite outer shell

Heat resistant anti-fog anti-scratch visor

Aluminised carbon fiber neck protector

Weight: 1500 gr

ATEX certified.

P/N : 14020920

CE EN 443 / EN 14458 / EN 166 MED Approved

FIRE COMPACT

Heat and flame resistant thermoplastic outer shell

Heat resistant anti-fog anti-scratch visor

Aluminised carbon fiber neck protector

Weight: 1250 gr

ATEX certified.

P/N : 14020910

CE EN 443 / EN 14458 / EN 166 MED Approved

FIRE COMPACT

Heat and flame resistant thermoplastic outer shell

Heat resistant anti-fog anti-scratch visor

Aluminised carbon fiber neck protector

Weight: 1250 gr

ATEX certified.

P/N : 14020940

CE EN 443 / EN 14458 / EN 166 MED Approved

SEIZ / CHIBA / ROSTAING FIREMAN GLOVES

BW BLACK

Leather
Reinforced palm

Porella® PU membrane

Paraaramid lining

Paraaramid knitted cuffs

Hook

Abrasion (3)
Cut (3)
Tear (4)
Puncture (3)

P/N : 14040900 CE EN 659 2003 - A1:2008

ROSTAING 4BKW

Leather
Reinforced Palm

Porella® PU membrane

Paraaramid lining

Paraaramid knitted cuffs

Hook

Abrasion (3)
Cut (2)
Tear (4)
Puncture (3)

P/N : 14040906 CE EN 659 2003 - A1:2008

TOP RESUCE II

Knitted Palm
Nomex® Top

Silicon Kevlar® coating

Nomex® Viscose cuffs

Kevlar® Twaron lining

Eurotex® membrane

Hook

Abrasion (3)
Cut (3)
Tear (3)
Puncture (3)

P/N : 14040905 CE EN 659 2003 - A1:2008

SEIZ PREMIUM

Knitted Palm
Nomex® Top

Silicon Kevlar® coating

Gore-Rex® X-Trafit® membrane

Kevlar® Gore-Tex® lining

Nomex® cuffs

Hook

Abrasion (4)
Cut (4)
Tear (4)
Puncture (3)

P/N : 14040902 CE EN 659 2003 - A1:2008 MED Approved

ETCHE / NOVESTA / LONGSTONE

ETCHE FIREMAN F3A

Radiant heat, flame and chemical resistant
Made of anti-static rubber material

Steel toe cap resistant to 200 j
Mid-sole resistant to 1100 N
Shock absorbent heel

Suitable to use with chemical suits that are tested according to EN 943-5

Cottong lining, anti-slip sole

Resistant to fuel, oil, acid and solvents

P/N : 14030139 (39-46)

CE EN 20345 EN15090 TYPE 3 HI3 SRC

MED Approved

NOVESTA FIREMAN F2A

Radiant heat, flame and chemical resistant
Made of anti-static rubber material

Resistant to fuel, oil, acid and solvents

Pull-ups for easy wearing

Ankle protection
Steel toe-cep, Steel mid-sole

Cotton Lining

Resistant to electric shock
Anti-slip sole

P/N : 14033039 (39-46)

CE EN 20345 EN 15090 TYPE 2 HI2 SRA

LONGSTONE F2A

Radiant heat, flame and chemical resistant
Made of anti-static leather material

Pull-ups for easy wearing

Steel toe-cep, Steel mid-sole

Resistant to fuel, oil, acid and solvents.

Sympatex® Puretex® membrane

Vibram nitrile rubber anti-slip sole

P/N : 14033140 (40-47)

CE EN 20345 EN 15090 HI3 SRC CI AN

SCOTT SIGMA II

SCOTT SAFETY
A Tyco International Company

Heat resistant, antistatic class 2 harness

Scott Vision 3 class 3 heat resistant positive pressure full face mask

Cylinder valve

Adjustable cylinder band

2 stage pressure regulator

Demand valve
Early warning system

Analogue manometer

Antistatic air hose

P/N : 05051001

CE EN 137 TYPE 2 / EN 139 MED Approved

CYLINDER VALVE

WTGH
ALTERNATIVE CYLINDER OPTIONS

6.8 lt 300 bar Carbon Composite
P/N : 05051009 CE EN 12245

6.0 lt 300 bar Steel
P/N : 05051004 CE ISO 9809 / EN 1964-2

SCOTT SAFETY
A Tyco International Company

Promask
Class 3 (Heat resistant)
P/N : 01010800 CE EN 136

Vision 3
Class 3 (Heat Resistant)
P/N : 60001053 CE EN 136

ADVANCED LEVEL OPTIONAL ACCESSORIES

Scott Sabrecom
Communication Kit

Voice Amplificator

SCOTT SAFETY
A Tyco International Company

Scott TECB
Telemetry Entry
Control Board

DPG Digital
Pressure
Manometer

ADSU
Disstress
Unit

SCOTT ELSA 15 B / FLITE / SORBENT ZEVS-U

SCOTT SAFETY ELSA 15 B

High visible cubicle hood

Automatic air flow when unsealed

Elastromeric leakproof neck seal

Audible early warning system

Designed as emergency life support equipment for 15 minutes, independent from the environment.

P/N : 04010750 CE EN 1149 MED Approved

FLITE

Mini breathing apparatus enables user to work in confined spaces for short time periods.

Can be used for escape in dangerous situations.

Can be used as emergency life support equipment for 15 minutes.

Suitable to use with positive pressure full face masks.

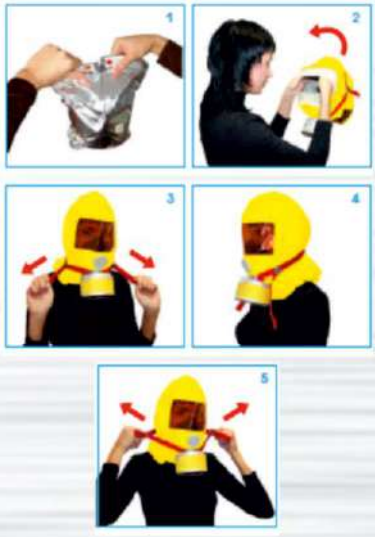
P/N : 05057200 CE EN 402 EN 139

sorbent® ZEVS - U

200 C heat resistant for 1 minute.

Carbon monoxide protection for 15 minutes.

Protection against organic and inorganic gases and vapours via its combined filter.



P/N : 040200400 CE EN 403 TYPE S

OTHER FIREMAN EQUIPMENTS

Flame retardant- Antistatic
PVC / Cotton Plavitex Multi 530 gr / m^2 Size (S-4XL)

P/N : 14050601 CE EN ISO 14116 / EN 343 / EN 471

HEAT AND FLAME PROTECTIVE WILDLAND GOGGLES

Anti Scratch
Frame, foam and harness are 600 °C heat resistant

P/N : 07051600 CE EN 166:2001 / EN 170 (2C 1,2)

FIRE BLANKETS

90 x 120 cm / 100 x 140 cm / 120 x 160 cm / 160 x 180 cm
Plain weave glass fiber

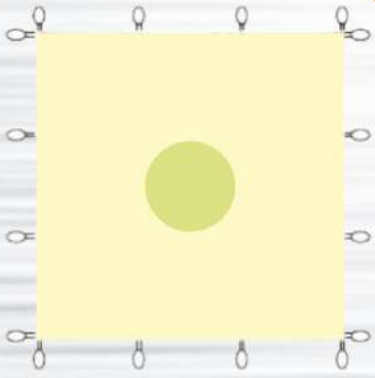
P/N : 14010520 EN 1869 : 1997

COOLING VESTS

Can be worn inside fireman clothes, chemical protective clothes, smelter clothes etc. to reduce heat stress and it provides comfort.

P/N : 18024200

JUMPING SHEET



P/N : 14060400 Size: 4 m x 4 m
16 handles

HEAT AND FLAME PROTECTIVE WILDLAND FIRE HELMET

Glass fiber reinforced polyester shell resistant up to 500 °C

P/N : 40002015 CE EN 397

HEAT AND FLAME RETARDANT T-SHIRT / HOOD

FYRTEX® FH 50

FYRTEX® FH 50 knitted fireman hood protects head, neck and shoulders from heat and flame.

Suitable to use with helmet and face mask.

%50 Aramid - % 49 Viscose FR - %1 Antistatic
Complete Double Layered

P/N : 18018550 | CE EN 13911 EN 1149 - 5

FYRTEX® FH 100

FYRTEX® FH 100 knitted fireman hood protects head, neck and shoulders from heat and flame.

Suitable to use with helmet and face mask.

%99 Aramid - %1 Antistatic
Complete Double Layered

P/N : 18018500 | CE EN 13911 EN 1149 - 5

FYRTEX® UW 100

FYRTEX® UW 100 is designed as underwear to reduce negative effects of heat and flame that the user may be exposed to.
Long sleeves.

Polo Neck / Crew Neck %99 Aramid - %1 Antistatic

P/N : 18518411 | CE EN 61482 1-2 CLASS 1 (4 kA) EN 11612 A1 B1 C1 / EN 1149-5

FYRTEX® UW 50

FYRTEX® UW 50 is designed as underwear to reduce negative effects of heat and flame that the user may be exposed to.
Long sleeves.

Polo Neck / Crew Neck %50 Aramid - %49 Viscose FR - %1 Antistatic

P/N : 18518811 | CE EN 61482 1-2 CLASS 1 (4 kA) EN 11612 A1 B1 C1 / EN 1149-5

FYRAL®

ALUMINIZED FIRE PROXIMITY SUITS

Fire fighting involves many risks that affect human health negatively. To get rid of these risks, personal protective clothings must be preferred, which are classified in 89/686/EEC Personal Protective Equipment Directive, which provides high protection.

FYRAL® series clothings are professional technical clothings that must be used by trained professional personnel. Provides protection by keeping heat stress from high ambient temperature below the limit that human metabolism can tolerate, as protects human body from flames.

To reduce potential risks;

- Before use, an appropriate training should be taken and an exercise should be performed.
- The most suitable personal protective equipment should be selected according to the working conditions.
- Usage limits of EN standards, efficiency and design information should be known.

The FYRAL® series aluminized fire proximity suits are manufactured in accordance with EN 1486 (Protective aluminized clothings, For fire fighters, Properties and test methods for professional fire fighting suits) standard to minimize the risks of fire fighting and intervention. Various protective clothings which consist of different layer systems have been developed to provide the user with more choice of the most appropriate clothing according to the risk groups to be used.

SIZE CHART

Size (cm)	Person's Height	Chest	Person's Waist
S 46/48	164 - 170	88 - 96	84 - 92
M 50/52	170 - 176	96 - 104	92 - 100
L 54/56	176 - 182	104 - 112	100 - 108
XL 58/60	182 - 188	112 - 120	108 - 116
XXL 62/64	182 - 188	120 - 128	116 - 124

TOLERANCE ± % 2

Prepared according to EN 340/EN 13688 standards.

EN 1486

Protective clothing for fire fighters • Test methods and requirements for reflective clothing for specialized fire fighting

Clothings for fire fighting are referred as Category III products according to the 89/686/EEC Personal Protective Equipment Directive, as they are designed to protect human against life-threatening, irreversible risks.

FYRAL® fire proximity suits are supplied as a complete set with complementary accessories such as hoods, gloves, and gaiters, as it is necessary to protect the entire body according to EN 1486 standard.

FYRAL® fire proximity suits complementary equipments which must be used with the suit/coverall;

- Fireman helmet in the protective hood in accordance with either of EN 397 / EN 443 / EN 14052 standards
- Fireman boots in gaiters in accordance with both EN 20345 / EN 15090 standards,
- Self contained breathing apparatus (SCBA) in accordance with EN 137 Class-2 standard which backplate and fittings are made of aramid which are not affected by flame can be safely used with fire proximity suits.

FYRAL® 5100

Size : XS - 4XL
(Jacket - Trousers - Hood - Gloves - Gaiters)

CE
CAT III

EN 1486

Outer Layer	Aluminized Glass Fiber
Heat Barrier	Aramid / Melamine Nonwoven (3 Layer)
Inner Liner	%93 NOMEX® • %5 KEVLAR® • %2 Antistatic Fiber
	NOMEX® III A

FYRAL® 5300

Size : XS - 4XL
(Coverall - Hood - Gloves - Gaiters)

CE
CAT III

EN 1486

Outer Layer	Aluminized Glass Fiber
Heat Barrier	Aramid / Melamine Nonwoven (3 Layer)
Inner Liner	%93 NOMEX® • %5 KEVLAR® • %2 Antistatic Fiber
	NOMEX® III A

FYRAL® 6100

Size : XS - 4XL
(Jacket - Trousers - Hood - Gloves - Gaiters)

CE
CAT III
EN 1486

Outer Layer	Aluminized Paraaramid
Moisture Barrier	PU Coated Moisture Barrier
Heat Barrier	Aramid / Melamine Nonwoven (2 Layers)
Inner Liner	%93 NOMEX® • %5 KEVLAR® • %2 Antistatic Fiber
	NOMEX® III A

FYRAL® 6300

Size : XS - 4XL
(Coverall - Hood - Gloves - Gaiters)

CE
CAT III
EN 1486

Outer Layer	Aluminized Paraaramid
Moisture Barrier	PU Coated Moisture Barrier
Heat Barrier	Aramid / Melamine Nonwoven (2 Layers)
Inner Liner	%93 NOMEX® • %5 KEVLAR® • %2 Antistatic Fiber
	NOMEX® III A

New

FYRAL® 9000

Size : XS - 4XL
(Jacket - Trousers - Hood - Gloves - Gaiters)

CE
CAT III

EN 1486

Outer Layer	Aluminized Glass Fiber
Heat Barrier	Aramid Nonwoven
Inner Liner	FR Fabric

The parts that constitute FYRAL® Series Fire Proximity Suits

Fireman helmet
in protective hood

Aluminized Gloves

Aluminized Jacket & Trousers or
Aluminized Coveralls

Fireman boots
in gaiters

The set is supplied
in a carrying bag.

FYRAL®

INDUSTRIAL ALUMINIZED CLOTHINGS

Industrial works involving heat and flame contains many risks that affect human health negatively. In order to remove these risks, clothing with special design, which provides high protection and falls under the 89/686 EEC Personal Protective Equipment category, should be preferred.

To reduce potential risks;

- Appropriate personal protective equipment must be selected according to the working conditions.
- Usage limits of EN standards, efficiency and design features should be known.

Protective clothings which certified according to EN ISO 11611 standard provides the wearer protection againsts plashes of molten metal, brief contact with flame and radiant heat. The clothings certified to this standard are suitable to use in welding and allied processes. The clothings are categorized according to the protection level against different levels of welding;

Class I - Protects against less hazardous welding techniques and situations, causing lower spatter and radiant heat. Tested with 15 molten metal drops.

Class II - Protects against more risky welding techniques and situations, which causes higher levels of spatter and radiant heat. Tested with 25 molten metal drops. This protection level covers both Class I and Class II. Also procedure A1 or A2 must be tested according to ISO 15025 for flame spread.

Protective clothings which certified according to EN ISO 11612 standard provides the wearer protection against brief contact with heat and flame. The heat can be convective, radiant, molten material or a combination of them.The clothings are categorized according to the following parameters:

A: EN ISO 15025 - Limited flame spread (from 1 to 2)
B: ISO 9151 - Convective heat (from 1 to 3)
C: EN ISO 6942 - Radiant heat (from 1 to 4)
D: ISO 9185 - Molten Aluminium splash (from 1 to 3)
E: ISO 9185 - Molten Iron splash (from 1 to 3)
F: ISO 12127 - Contact heat (from 1 to 3)

EN ISO 11612

Protective clothing • Clothing to protect against heat and flame for industrial purposes
Minimum performance requirements

EN ISO 11611

Protective clothing for use in welding and allied processes

Test Standard	Marking	Classification
EN ISO 15025 / Limited flame spread	A1	According to Procedure A
	A2	According to Procedure B
ISO 9151 / Convective heat	B1	4.0 sec < HTI_{24} < 10.0 sec
	B2	10.0 sec < HTI_{24} < 20.0 sec
	B3	20.0 sec < HTI_{24}
EN ISO 6942 / Radiant heat	C1	7.0 sec < $RHTI_{24}$ < 20.0
	C2	20.0 sec < $RHTI_{24}$ < 50.0 sec
	C3	50.0 sec < $RHTI_{24}$ < 95.0 sec
	C4	95.0 sec < $RHTI_{24}$
ISO 9185 / Molten aluminium splash	D1	100g < D1 < 200g
	D2	200g < D2 < 350g
	D3	350g < D3
ISO 9185 / Molten iron splash	E1	60g < E1 < 120g
	E2	120g < E2 < 200g
	E3	200g < E3
ISO 12127/ Contact heat	F1	5.0 sec < T (sec) threshold value time < 10.0 sec
	F2	10.0 sec < T (sec) threshold value time < 15.0 sec
	F3	15.0 sec < T (sec) threshold value time

SIZE CHART

Size (cm)	Person's Height	Chest	Person's Waist
S 46/48	164 - 170	88 - 96	84 - 92
M 50/52	170 - 176	96 - 104	92 - 100
L 54/56	176 - 182	104 - 112	100 - 108
XL 58/60	182 - 188	112 - 120	108 - 116
XXL 62/64	182 - 188	120 - 128	116 - 124

TOLERANCE ± % 2

Prepared according to EN 340/EN 13688 standards.

AIR COOLED CLOTHINGS FOR EXTREME HOT ENVIRONMENTS

FYRAL® HEATPRO V4L VORTEX

Size : XS - 4XL
(Coverall)

EN ISO 11612
A1
B1
C3
D3
E3
F1

CE
CAT III

Outer Layer	Aluminized Viscose FR
Inner Layer	%88 Cotton FR • %12 PA
Heat Barrier	%100 Aramid Felt
Inner Liner	%88 Cotton FR • %12 PA

Provides long-term operation for repair and maintenance in furnaces and ovens where radiant heat is high. A vortex cooling tube has been added into the coverall. The cooling tube works with 5-6 bar compressed air. The cool air, circulating in the channels/tubes between the layers of the clothing, provides the user coolness and comfort.
The cooling tube removes the overwhelming heating called 'heat stress' on the worker and makes air conditioning in the clothing. Produced in accordance with EN ISO 11612 standard.

Advantages

- Increases worker productivity in extreme hot environments
- No moving parts
- Does not contain any plastic parts
- User friendly
- Lightweight
- Adjustable cooling level

Areas of use

- Foundries
- Boiler rooms
- Iron and Steel Smelting
- Glass and Ceramic Production
- Cement Production
- Iron Forging
- Welding
- Sandblasting
- Paint Drying Ovens
- Metal Powder Coating
- Rolling Mills
- Mines
- Hot Furnaces

FYRAL® 800 V

Aluminized Viscose FR - Single Layered

Size : XS - 4XL
(Jacket - Trousers)

EN ISO 11612
A1
B1
C3
D3
E3
F1

CE

CAT III

Protective against

- Molten metal splashes
- Radiant heat
- Heat and flame

FYRAL® 810 Apron

FYRAL® 820 Hood

FYRAL® 830 Gaiters

FYRAL® 840 Sleeves

FYRAL® 850 Open Back Cape

FYRAL® 900 DF

New

Size : XS - 4XL
(Jacket - Trousers)

EN 1149-3/5

Front

A1
B1
C3
D2
E3
F1

EN ISO 11612

Rear

A1
B1
C1
D3
E3
F1

EN ISO 11612

CE

CAT III

Front Layer	Aluminized Viscose FR
Rear Layer	%54 Viscose FR • %20 Wool • %20 Polyamide • %5 Paraaramid • %1 Antistatic Fiber

Protective against

- Molten metal splashes
- Radiant heat
- Heat and flame


AX
Safety
Group

ELECTPRO®

ELECTRIC ARC FLASH PROTECTIVE CLOTHINGS

An electric arc explosion is the energy discharge in the form of heat and light that flows through the air between two non-tangential conductors. For this reason, arc studies contain many risks that affect human health negatively. To remove these risks, special protective clothings manufactured acoording to the 89/686 / EEC Personal Protective Equipment should be preferred, which provide high level of protection.

ELECTPRO® electric arc flash protective garments are in category III, according to Personal Protective Equipment Directive 89/686 / EEC and manufactured according to EN Standards performance requirements.

To reduce potential risks;

- Usage limits of EN standards, efficiency and design information should be known.
- The most suitable personal protective equipment should be selected according to working conditions.
- Complementary accessories should be used to protect whole body against electric arc.

Model	EN 61482 - 1 - 2		EN 1149-3/5	ATPV (cal/cm²)	Page
	Level 1	Level 2			
ELECTPRO® S1L ALX 145	✓		✓		33
ELECTPRO® G1L ALX 250	✓		✓		33
ELECTPRO® G2L CVC 275		✓	✓		34
ELECTPRO® G2L ARC/A		✓	✓		34
ELECTPRO® G2L ULTRASOFT 900		✓	✓	63	35
ELECTPRO® G2L ULTRASOFT 900 HOOD		GS-ET-29	✓	51	35
FYRTEX® UW 50	✓		✓		41

IEC / EN 61482 -1-1
IEC / EN 61482 -1-2
IEC 61482 -2

Protective clothing against the thermal hazards of an electric arc • Part 1-1: Test methods
Method 1: Determination of the arc rating (ATPV or EBT50) of flame resistant materials for clothing
Protective clothing against the thermal hazards of an electric arc • Part 1-2: Test methods
Method 2: Determination of arc protection class of material and clothing by using a constrained and directed arc (box test)
Protective clothing against the thermal hazards of an electric arc • Part 2: Requirements

EN ISO 11612

Protective clothing • Clothing to protect against heat and flame for industrial purposes
Minimum performance requirements

EN 1149-5

Protective clothing • Electrostatic properties • Material performance and design requirements

GS ET 29 Supplementary requirements for the testing and certification of face shields / hoods for electrical works

Protective clothings against electric arc are certified according to IEC 61482-2 standard. According to IEC / EN 61482-1-2 standard, there are two levels of protection, Level 1 (4 kA) and Level 2 (7 kA). Level 2 is the highest level that can be reached for protection against electric arc. Also according to IEC / EN 61482-1-1 standard ATPV (cal / cm2) value is determined. ATPV value is needed in high voltage lines.

The EN ISO 11612 standard is a certification standard such as the IEC 61482-2 standard and covers joint performance tests. However, according to the IEC / EN 61482-1-2 test standard, the arc protection class also needs to be determined additionally. The EN 1149-3 / 5 standard is used to reduce the risk of accidents that may occur due to discharging the load in the environment where explosive gas may be present, while antistatic fibers in the fabric content are used to minimize the risk of accidents.

ELECTPRO® electric arc protective garments; protect the upper and lower body including the neck, arms up to the wrists and legs to the ankles according to the standards. Industrial work and electrical arc work involve variety of risks, so the rest of the body must be protected.

Complementary equipments that can be used together with ELECTPRO® garments;
- Flame retardant underwear manufactured according to EN 11612 standard,
- Arc flash protective helmet,
- Arc flash protective hood / visor,
- Arc flash protective gloves,
- Dielectric boots.

ELECTPRO® ARC PROTECTOR ARAMID G1L ALX 250

%65 Lenzing® FR • %22 Aramid • %12 PA • %1 Antistatic Fiber
250 g/m²

(Jacket / Short Jacket - Trousers) Size: XS - 4XL

EN ISO 11612

EN 1149-3/5

CE
CAT III

IEC 61482 - 2
IEC / EN 61482 - 1 - 2
Class 1 : 4 kA

3M Scotchlite™ Reflective Material

YSL Reflective Material

Color Options

ELECTPRO® ARC PROTECTOR ARAMID S1L ALX 145

%64 Lenzing® FR • %30 Conex® • %5 Twaron® • %1 Antistatic Fiber
145 g/m²

(Shirt) Size : XS - 4XL

EN ISO 11612

EN 1149-3/5

CE
CAT III

IEC 61482 - 2
IEC / EN 61482 - 1 - 2
Class 1 : 4 kA

3M Scotchlite™ Reflective Material

YSL Reflective Material

New

ELECTPRO® ARC PROTECTOR COTTON G2L CVC 275

%75 Cotton FR • % 23 PES • % 2 PA (Double layered) 275 g/m²

Proban® Treated

(Jacket / Short Jacket - Trousers) Size : XS - 4XL

EN ISO 11612

EN 1149-3/5

CE

CAT III

IEC / EN 61482 - 1 - 2
IEC 61482 - 2
Level 2 : 7 kA

PROBAN®

New

ELECTPRO® ARC PROTECTOR ARAMID G2L ARC/A

%65 Lenzing® FR • % 22 Aramid • % 12 PA • %1 Antistatic Fiber 250 g/m²

%64 Lenzing® FR • % 30 Conex® • % 5 Twaron® • %1 Antistatic Fiber 145 g/m²

(Jacket / Short Jacket - Trousers)
Size : XS - 4XL

EN ISO 11612

EN 1149-3/5

CE

CAT III

IEC / EN 61482 - 1 - 2
IEC 61482 - 2
Level 2 : 7 kA

New

ELECTPRO® ARC PROTECTOR G2L ULTRASOFT 900

%88 Cotton FR • %12 PA 440 g/m²

%100 Cotton FR Denim 475 g/m²

(Jacket - Trousers) Size : XS - 4XL

A1
B1
C1

EN ISO 11612

EN 1149-3/5

CE
CAT III

IEC 61482 - 2
IEC / EN 61482 - 1 - 2
Level 2 : 7kA

ELECTPRO® G2L ULTRASOFT 900
ATPV
63 cal/cm²
IEC 61482-1-1

WESTEX Ultrasoft®

Westex Indura®

New

ELECTPRO® ARC PROTECTOR G2L ULTRASOFT 900 HOOD

%88 Cotton FR • %12 PA 440 g/m²

%100 Cotton FR Denim 475 g/m²

(Visor + Hood)

A1
B1
C1

EN ISO 11612

EN 1149-3/5

CE
CAT III

Class 2
GS ET 29
DIN EN 166
DIN EN 170

ELECTPRO® G2L ULTRASOFT 900
ATPV
51 cal/cm²
IEC 61482-1-1

WESTEX Ultrasoft®

Westex Indura®

SIZE CHART

Size (cm)	Jacket				Short Jacket				Trousers		
	Chest	Arm	Shoulder	Length	Chest	Arm	Shoulder	Length	Waist	Inner Leg	Length
S 46/48	56	59	17	78	56	60	17	67	46	75	103
M 50/52	60	61	18	80	60	62	18	71	50	76	106
L 54/56	64	62	19	82	64	63	19	73	54	77	109
XL 58/60	68	63	20	84	68	64	20	75	58	78	112
XXL 62/64	72	65	21	86	72	65	21	76	62	80	115

Size (cm)	Coverall				Shirt			
	Chest	Arm	Inner Leg	Lenght	Chest	Arm	Shoulder	Length
S 46/48	56	59	71	150	54	59	16	78
M 50/52	60	61	72	155	58	61	17	80
L 54/56	64	62	73	160	62	62	18	82
XL 58/60	68	63	74	165	66	63	19	84
XXL 62/64	72	65	76	170	70	65	20	86

TOLERANCE ± % 2

Prepared according to EN 340/EN 13688 Standard.

ELECTRIC ARC FLASH PROTECTIVE EQUIPMENTS

- Arc Flash Visors
- Arc Flash Gloves
- Arc Flash Goggles
- Dielectric Boots

ARC FLASH VISORS / GLOVES / GOGGLES / DIELECTRIC BOOTS

ARC VISORS

PAULSON

ATPV : 12cal/cm² P/N : 07020910
ATPV : 25cal/cm² P/N : 07020920
CE EN 166:2002 EN 170:ANSI Z87.1 GS-ET-29CIA SS2

ARC VISORS

SCOTT SAFETY

P/N : 07020850
CE EN 166:2001 (4 kA)

ARC GOGGLES

PAULSON

CE ANSI Z.87 38 cal/cm²

ARC GLOVES

eureka

P/N : 07068816
CE EN 388 - EN 407 >30 cal/cm²

Abrasion Resistance (3)
Cut Resistance (5)
Tear Resistance (4)
Puncture Resistance (4)

DIELECTRIC BOOTS

RESPIREX

20kV Protection For Over Eight Hours

Complete boot 20 kW, 8 hours
Sole 35 kW, 3 minutes

P/N : 14030844
CE EN ISO 20345 I EURO SRA CI

ARC GLOVES

CHARNAUD

P/N : 13216618
CE EN 61482-1-2 12.4 cal / cm²

P/N : 13216615
CE EN 61482-1-2 5.1 cal / cm²

FYRTEX®

INDUSTRIAL HEAT AND FLAME PROTECTIVE CLOTHINGS

Industrial works involving heat and flame contains many risks that affect human health negatively. In order to remove these risks, clothing with special design, which provides high protection and falls under the 89/686 EEC Personal Protective Equipment category, should be preferred.

FYRTEX® industrial heat and flame protective workwear are designed to meet the performance of various EN standards and are in the category II, which constitutes a risk in accordance with the 86/686/EEC Personal Protective Equipment Directive.

To reduce potential risks;

- Appropriate personal protective equipment must be selected according to the working conditions.
- Usage limits of EN standards, efficiency and design features should be known.

Test Standard	Marking	Classification
EN ISO 15025 / Limited flame spread	A1	According to Procedure A
	A2	According to Procedure B
ISO 9151 / Convective heat	B1	4.0 sec < HTI_{24} < 10.0 sec
	B2	10.0 sec < HTI_{24} < 20.0 sec
	B3	20.0 sec < HTI_{24}
EN ISO 6942 / Radiant heat	C1	7.0 sec < $RHTI_{24}$ < 20.0
	C2	20.0 sec < $RHTI_{24}$ < 50.0 sec
	C3	50.0 sec < $RHTI_{24}$ < 95.0 sec
	C4	95.0 sec < $RHTI_{24}$
ISO 9185 / Molten aluminium splash	D1	100g < D1 < 200g
	D2	200g < D2 < 350g
	D3	350g < D3
ISO 9185 / Molten iron splash	E1	60g < E1 < 120g
	E2	120g < E2 < 200g
	E3	200g < E3
ISO 12127/ Contact heat	F1	5.0 sec < T (sec) threshold value time < 10.0 sec
	F2	10.0 sec < T (sec) threshold value time < 15.0 sec
	F3	15.0 sec < T (sec) threshold value time

EN ISO 11612 — Protective clothing • Clothing to protect against heat and flame for industrial purposes Minimum performance requirements

EN 15614 — Protective clothing for fire fighters • Laboratory test methods and performance requirements for wildland clothing

EN 13911 — Protective clothing for fire fighters • Requirements and test methods for fire hoods for fire fighters

EN ISO 11611 — Protective clothing for use in welding and allied processes

EN 1149-3/5 — Protective clothing • Electrostatic properties • Material performance and design requirements

IEC / EN 61482 -1-1
IEC / EN 61482 -1-2
IEC 61482 - 2

Protective clothing against the thermal hazards of an electric arc • Part 1-1: Test methods
Method 1: Determination of the arc rating (ATPV or EBT50) of flame resistant materials for clothing
Protective clothing against the thermal hazards of an electric arc • Part 1-2: Test methods
Method 2: Determination of arc protection class of material and clothing by using a constrained and directed arc (box test)
Protective clothing against the thermal hazards of an electric arc • Part 2: Requirements

MATRIX

Model	EN ISO 11612	EN ISO 11611		EN 1149	EN 15614	EN 61482		Page
		Level 1	Level 2			Level 1	Level 2	
FYRTEX® G1L PRO 250	✓	✓		✓	✓	✓		42
FYRTEX® C1L PRO 250	✓	✓		✓	✓			42
FYRTEX® S1L PRO 145	✓			✓		✓		41
FYRTEX® G1L CVC 275	✓	✓		✓				43
FYRTEX® C1L CVC 275	✓	✓		✓				43
FYRTEX® G1L H3T 200	✓			✓				45
FYRTEX® C1L H3T 200	✓			✓				45
Metal SplashGuard 375 G1L	✓		✓	✓				44
FYRTEX® UW 50	✓			✓		✓		46
FYRTEX® UW 100	✓			✓				46

FYRTEX® S1L PRO 145

%64 Lenzing® FR • %30 Conex® • %5 Twaron® • %1 Antistatic Fiber 145 g/m²

(Shirt) Size : XS - 4XL

A1
B1
C1
F1

EN ISO 11612

EN 1149-3/5

CE
CAT II

- Protective against heat and flame
- Antistatic clothing

3M Scotchlite™ Reflective Material

YSL Reflective Material

FYRTEX® UW 50

%50 Kermel® • %49 Lenzing® FR • %1 Antistatic Fiber 220 g/m²

(Knitted T-shirt) Size : XS - 4XL

A1
B1
C1

EN ISO 11612

EN 1149-3/5

CE
CAT III

EN 61482-1-2
Level 1 : 4kA

- Designed as single layered
- Protective against heat and flame
- Protective against arc flash
- Antistatic clothing

FYRTEX® G1L PRO 250

%65 Lenzing® FR • %22 Aramid • %12 PA • %1 Antistatic Fiber 250 g/m²

(Jacket / Short Jacket / Trousers) Size: XS - 4XL

EN ISO 11612

EN 15614

EN ISO 11611
CLASS 1

EN 1149-3/5

CE

CAT II

- Wildland suit
- Welding suit
- Protective against heat and flame
- Antistatic clothing

Color Options

FYRTEX® C1L PRO 250

%65 Lenzing® FR • %22 Aramid • %12 PA • %1 Antistatic Fiber 250 g/m²

(Coverall) Size: XS - 4XL

EN ISO 11612

EN 15614

EN ISO 11611
CLASS 1

EN 1149-3/5

CE

CAT II

- Wildland suit
- Welding suit
- Protective against heat and flame
- Antistatic clothing

Color Options

FYRTEX® G1L CVC 275

%75 Cotton FR • %24 Polyester • %1 Antistatic Fiber 275 g/m²

(Jacket / Short Jacket / Trousers) Size: XS - 4XL Proban® Treated

EN ISO 11612

CE

CAT II

EN ISO 11611
CLASS 1

EN 1149-3/5

- Protective against heat and flame
- Welding suit
- Antistatic clothing

Color Options

3M Scotchlite™ Reflective Material YSL Reflective Material

PROBAN®

FYRTEX® C1L CVC 275

%75 Cotton FR • %24 Polyester • %1 Antistatic Fiber 275 g/m²

(Coverall) Size: XS - 4XL Proban® Treated

EN ISO 11612

CE

CAT II

EN ISO 11611
CLASS 1

EN 1149-3/5

- Protective against heat and flame
- Welding suit
- Antistatic clothing

Color Options

3M Scotchlite™ Reflective Material YSL Reflective Material

PROBAN®

METAL SPLASHGUARD 375 G1L

%54 Viscose FR • %20 Wool • %20 PA • %5 Paraaramid • %1 Antistatic Fiber 375 g/m²

(Jacket / Short Jacket /Trousers)
(Hood - Sleeves - Gaiters - Apron - Neck Protector) Size : XS - 4 XL

EN ISO 11612
A1
B1
C2
D3
E3
F1

CE
CAT III

EN ISO 11611
CLASS 2

EN 1149-3/5

- Protective against heat and flame
- Welding suit
- Protective against molten metal splash
- Antistatic clothing

FYRTEX® G1L & C1L H3T 200

%93 Metaaramid • %5 Paraaramid • %2 Antistatic Fiber 200 g/m²

(Jacket / Short Jacket - Trousers - Coverall) Size : XS - 4XL

EN ISO 11612

EN 1149-3/5

CE
CAT II

- Protective against heat and flame
- Antistatic clothing

3M Scotchlite™ YSL

FYRTEX® FH 100
FH 50

%99 Kermel® • %1 Antistatic Fiber 220 g/m²

%50 Kermel® • %49 Lenzing® FR • %1 Antistatic Fiber 220 g/m²

Size : Standard

EN 13911

EN 1149-3/5

CE
CAT II

- Designed as complete double layered
- Protective against heat and flame
- Antistatic clothing

FYRTEX® G - DWA
C - DWA

%50 Aramid • %50 Viscose FR	130 g/m²
%100 Aramid	100 g/m²
%50 Aramid • %50 Viscose FR	130 g/m²

(Jacket / Trousers - Coverall) Size: XS - 4XL

EN ISO 11612

EN 1149-3/5

- Designed as triple layered
- Protective against heat and flame
- Antistatic clothing
- Detachable
- Protective against cold
- Heat and flame retardant inner layer

Inner layer can be adapted to all our FYRTEX® clothings.
By this way, all our single layered garments can be made suitable for winter, by having CE certificate.

FYRTEX® UW 100
UW 50

%99 Kermel® • %1 Antistatic Fiber	220 g/m²
%50 Kermel® • %49 Lenzing® FR • %1 Antistatic Fiber	220 g/m²

(Knitted underwear) Size: XS - 4XL

EN ISO 11612

EN 1149-3/5

CE

CAT II

- Designed as single layered
- Protective against heat and flame
- Antistatic clothing

SIZE CHART

Size (cm)	Overalls				Shirt			
	Chest	Arm	Inner Leg	Length	Chest	Arm	Shoulder	Length
S 46/48	56	59	71	150	54	59	16	78
M 50/52	60	61	72	155	58	61	17	80
L 54/56	64	62	73	160	62	62	18	82
XL 58/60	68	63	74	165	66	63	19	84
XXL 62/64	72	65	76	170	70	65	20	86

Size (cm)	Jacket				Short Jacket				Trousers		
	Chest	Arm	Shoulder	Length	Chest	Arm	Shoulder	Length	Waist	Inner Leg	Length
S 46/48	56	59	17	78	56	60	17	67	46	75	103
M 50/52	60	61	18	80	60	62	18	71	50	76	106
L 54/56	64	62	19	82	64	63	19	73	54	77	109
XL 58/60	68	63	20	84	68	64	20	75	58	78	112
XXL 62/64	72	65	21	86	72	65	21	76	62	80	115

TOLERANCE ± % 2

Prepared according to EN 340/EN 13688 standards.

SAFETY

www.ist.com.tr

TÜRMATSAN ORGANİZE
MATBAACILIK LTD. ŞTİ.
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KÜÇÜK VE ORTA ÖLÇEKLİ SANAYİ GELİŞTİRME VE DESTEKLEME İDARESİ BAŞKANLIĞI