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 clothing, fireman suits, aluminized fire proximity/entry suits, air cooled kiln entry clothing, 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.

www.ist.com.tr
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.
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.

FYPROM 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.

FYPROM series firefighter 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.

<table>
<thead>
<tr>
<th>TESTS</th>
<th>TEST METHOD</th>
<th>PERFORMANCE LEVELS</th>
<th>MARKING</th>
<th>LEVEL 2</th>
<th>MARKING</th>
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<tbody>
<tr>
<td>Heat transfer (Frame)</td>
<td>EN 3/7</td>
<td>HTP, ≥ 9sec</td>
<td>X,1</td>
<td>HTP, ≥ 13sec</td>
<td>X/2</td>
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<td>HTL, ≥ 3sec</td>
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<td>HTL, ≥ 4sec</td>
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<tr>
<td>Heat transfer (Radiant)</td>
<td>EN 13928</td>
<td>RHT, ≥ 10sec</td>
<td>X,1</td>
<td>RHT, ≥ 18sec</td>
<td>X,2</td>
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<td></td>
<td></td>
<td>RHT, ≥ 3sec</td>
<td></td>
<td>RHT, ≥ 4sec</td>
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<tr>
<td>Resistance to water penetration</td>
<td>EN 3811</td>
<td>Level 1&lt;20kPa</td>
<td>Y1</td>
<td>Level 2 ≥ 20kPa</td>
<td>Y2</td>
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<tr>
<td>Water vapour resistance</td>
<td>EN 31092</td>
<td>30m² Pa/W-Level 1&lt; 45m² Pa/W</td>
<td>Z1</td>
<td>Level 2 ≤ 30 m² Pa/W</td>
<td>Z2</td>
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</tbody>
</table>

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 X, Xr, Y and Z levels must be submitted as grade 2. If one of them fails as Level 1, suit will be Level 1 totally. As mentioned in 89/686/EEC Personnel Protective Equipment Directive, firefighting 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 assures 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.
<table>
<thead>
<tr>
<th>Model</th>
<th>EN 469 Level 1</th>
<th>Level 2</th>
<th>MED</th>
<th>Page</th>
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<tbody>
<tr>
<td>FYRPRO® 440</td>
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<td>FYRPRO® 630</td>
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<td>5</td>
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<tr>
<td>FYRPRO® 630 C</td>
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<tr>
<td>FYRPRO® 635</td>
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<td>FYRPRO® 640 C</td>
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<tr>
<td>FYRPRO® 650</td>
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<td>✓</td>
<td>3</td>
</tr>
</tbody>
</table>
**Fyrpro® 440**

Size: XS - 4XL
(Jacket - Trousers)

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

Color Options

---

**Fyrpro® 650**

Size: XS - 4XL
(Jacket - Trousers)

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

Color Options

---

Model 1  
Model 2
FYRPRO® 640
Size: XS - 4XL
(Jacket - Trousers)

- EN 469
- 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

FYRPRO® 640 C
Size: XS - 4XL
(Coverall)

- EN 469
- 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

Color Options: [Image]
**Fyrpro® 630**

Size: XS - 4XL  
(Jacket - Trousers)

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

**Color Options**

- (Images of color options are present)

**Fyrpro® 630 C**

Size: XS - 4XL  
(Coverall)

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

**Color Options**

- (Images of color options are present)
FYRPRO® 635

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

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)

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 pad
- 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

<table>
<thead>
<tr>
<th>Size (cm)</th>
<th>Person’s Height</th>
<th>Person’s Chest</th>
<th>Person’s Waist</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 46/48</td>
<td>164 - 170</td>
<td>88 - 96</td>
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<td>M 50/52</td>
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<td>XXL 62/64</td>
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<td>120 - 128</td>
<td>116 - 124</td>
</tr>
</tbody>
</table>

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

**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

**P/N: 14020920**
- ATEX certified.
- EN 443 / EN 16428 / EN 166
- MDD 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

**P/N: 14020940**
- ATEX certified.
- EN 443 / EN 16428 / EN 166
- MDD Approved

www.ist.com.tr
SEIZ / CHIBA / ROSTAING FIREMAN GLOVES

**SEIZ / CHIBA / ROSTAING FIREMAN GLOVES**

---

**SW BLACK**

- Leather
- Reinforced palm
- Porella® PU membrane
- Paraaramid lining
- Paraaramid knitted cuffs
- Hook

---

**TOP RESCUE II**

- Knitted Palm
- Nomex® Top
- Silicon Kevlar® coating
- Nomex® Viscose cuffs
- Kevlar® Twaron lining
- Eurotex® membrane
- Hook

---

**ROSTAING 4XKW**

- Leather
- Reinforced Palm
- Porella® PU membrane
- Paraaramid lining
- Paraaramid knitted cuffs
- Hook

---

**SEIZ PREMIUM**

- Knitted Palm
- Nomex® Top
- Silicone Kevlar® coating
- Gore-Tex® X-Trafit® membrane
- Kevlar® Gore-Tex® lining
- Nomex® cuffs
- Hook

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

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

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

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

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- P/N : 14040900
- P/N : 14040906
- P/N : 14040905
- P/N : 14040902

**www.ist.com.tr**
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
Cotton lining, anti-slip sole
Resistant to fuel, oil, acid and solvents

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

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

ETCHE SECURITE
P/N : 14033039 (39-46)

NOVESTA
P/N : 14033039 (39-46)

LONGSTONE
P/N : 14033140 (40-47)
SCOTT SIGMA II

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

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

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

ADVANCED LEVEL OPTIONAL ACCESSORIES

Scott Sabrecorn Communication Kit
Voice Amplificator

Cylinder Valve

6.0 lt 300 bar Carbon Composite
P/N: 05051009

6.0 lt 300 bar Steel
P/N: 05051004
SCOTT ELSA 15 B / FLITE / SORBENT ZEVS-U

**ELSA 15 B**
- High visible cubicle hood
- Automatic air flow when unsealed
- Elastomeric leakproof neck seal
- Audible early warning system
- Designed as emergency life support equipment for 15 minutes, independent from the environment.

P/N: 04010750

**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

**ZERBENT**
- 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

EN 440 TYPE S
OTHER FIREMAN EQUIPMENTS

**Flame retardant - Antistatic**

PVC / Cotton Plavitex Multi

530 gr / m²  Size (S-4XL)

P/N: 14050601

**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**

Size: 4 m x 4 m

16 handles

P/N: 14060400

**Heat and Flame Protective Wildland Goggles**

Anti Scratch

Frame, foam and harness are 600 °C heat resistant

P/N: 07051600

**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

**Heat and Flame Protective Wildland Fire Helmet**

Glass fiber reinforced polyester shell resistant up to 500 °C

P/N: 40002015
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.

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.

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.

FYRTEX® UW 100

Polo Neck / Crew Neck

P/N: 18018500
%50 Aramid - % 49 Viscose FR - % 1 Antistatic
Complete Double Layered

P/N: 18018550
%50 Aramid - % 49 Viscose FR - % 1 Antistatic
Complete Double Layered

P/N: 18518811
Polo Neck / Crew Neck
%50 Aramid - %49 Viscose FR - %1 Antistatic

P/N: 18518411
%99 Aramid - % 1 Antistatic
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.

<table>
<thead>
<tr>
<th>Size (cm)</th>
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</tr>
</tbody>
</table>

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

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 16015 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)

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)

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)

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

EN 1486
CAT III

FYRAL® 6300

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

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

EN 1486
CAT III
FYRAL® 9000

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

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.
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 against flashes 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)

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

Protective clothing for use in welding and allied processes
<table>
<thead>
<tr>
<th>Test Standard</th>
<th>Marking</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN ISO 15025 / Limited flame spread</td>
<td>A1</td>
<td>According to Procedure A</td>
</tr>
<tr>
<td></td>
<td>A2</td>
<td>According to Procedure B</td>
</tr>
<tr>
<td></td>
<td>B1</td>
<td>4.0 sec &lt; HTL4 &lt; 10.0 sec</td>
</tr>
<tr>
<td></td>
<td>B2</td>
<td>10.0 sec &lt; HTL4 &lt; 20.0sec</td>
</tr>
<tr>
<td></td>
<td>B3</td>
<td>20.0 sec &lt; HTL4</td>
</tr>
<tr>
<td></td>
<td>C1</td>
<td>7.0 sec &lt; RHTL4 &lt; 20.0</td>
</tr>
<tr>
<td></td>
<td>C2</td>
<td>20.0 sec &lt; RHTL 50 &lt; 50.0 sec</td>
</tr>
<tr>
<td></td>
<td>C3</td>
<td>50.0 sec &lt; RHTL 50 &lt; 95.0 sec</td>
</tr>
<tr>
<td></td>
<td>C4</td>
<td>95.0 sec &lt; RHTL 50</td>
</tr>
<tr>
<td></td>
<td>D1</td>
<td>100g &lt; D1 &lt; 250g</td>
</tr>
<tr>
<td></td>
<td>D2</td>
<td>200g &lt; D2 &lt; 350g</td>
</tr>
<tr>
<td></td>
<td>D3</td>
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</tr>
<tr>
<td></td>
<td>E1</td>
<td>60g &lt; E1 &lt; 120g</td>
</tr>
<tr>
<td></td>
<td>E2</td>
<td>120g &lt; E2 &lt; 210g</td>
</tr>
<tr>
<td></td>
<td>E3</td>
<td>200g &lt; E3</td>
</tr>
<tr>
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<td>F1</td>
<td>5.0 sec &lt; T (sec) threshold value time &lt; 10.0 sec</td>
</tr>
<tr>
<td></td>
<td>F2</td>
<td>10.0 sec &lt; T (sec) threshold value time &lt; 15.0 sec</td>
</tr>
<tr>
<td></td>
<td>F3</td>
<td>15.0 sec &lt; T (sec) threshold value time</td>
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</table>

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**SIZE CHART**

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

**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)

- 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)

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

Size: XS - 4XL
(Jacket - Trousers)

Front

Rear

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
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 clothing manufactured according 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>EN 61482 - 1 - 2</th>
<th>EN 1149-3/5</th>
<th>ATPV (cal/cm²)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTPRO® STL ALX 145</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>33</td>
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<tr>
<td>ELECTPRO® G1L ALX 250</td>
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<td>✔</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>ELECTPRO® G2L CVC 275</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>34</td>
</tr>
<tr>
<td>ELECTPRO® G2L ARC/A</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>34</td>
</tr>
<tr>
<td>ELECTPRO® G2L ULTRASOFT 900</td>
<td>✔</td>
<td>✔</td>
<td>63</td>
<td>35</td>
</tr>
<tr>
<td>ELECTPRO® G2L ULTRASOFT 900 HODD</td>
<td></td>
<td></td>
<td>51</td>
<td>35</td>
</tr>
<tr>
<td>FYRTEX® UN 50</td>
<td>✔</td>
<td></td>
<td></td>
<td>41</td>
</tr>
</tbody>
</table>
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

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

%65 Lemang® FR • %22 Aramid • %12 PA • %1 Antistatic Fiber

250 g/m²

EN ISO 11612  EN 1149-3/5

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

Color Options

---

ELECTPRO® ARC PROTECTOR ARAMID
S1L ALX 145

(Shirt)  Size: XS - 4XL

%64 Lemang® FR • %30 Conex® • %5 Twaron® • %1 Antistatic Fiber

145 g/m²

EN ISO 11612  EN 1149-3/5

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

Color Options

---

www.ist.com.tr
ELECTPRO® ARC PROTECTOR COTTON
G2L CVC 275

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

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

EN ISO 11612  
EN 1149-3/5

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

ELECTPRO® ARC PROTECTOR ARAMID
G2L ARC/A

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

%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

EN ISO 11612  
EN 1149-3/5

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

www.ist.com.tr
**ELECTPRO® ARC PROTECTOR**

**G2L ULTRASOFT 900**

(Jacket - Trousers)  Size: XS - 4XL

- EN ISO 11612
- EN 1149-3/5

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>%88 Cotton FR</td>
<td>440 g/m²</td>
<td></td>
</tr>
<tr>
<td>%12 PA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%100 Cotton FR Denim</td>
<td>475 g/m²</td>
<td></td>
</tr>
</tbody>
</table>

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

**ELECTPRO® ARC PROTECTOR**

**G2L ULTRASOFT 900 HOOD**

(Visor + Hood)

- EN ISO 11612
- EN 1149-3/5

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>%88 Cotton FR</td>
<td>440 g/m²</td>
<td></td>
</tr>
<tr>
<td>%12 PA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%100 Cotton FR Denim</td>
<td>475 g/m²</td>
<td></td>
</tr>
</tbody>
</table>

- Class 2
- GS ET 29
- DIN EN 166
- DIN EN 170

**NEW**

- ATPV 63 cal/cm²
- ATPV 51 cal/cm²
### Size Chart

<table>
<thead>
<tr>
<th>Size (cm)</th>
<th>Jacket</th>
<th>Short Jacket</th>
<th>Trousers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chest</td>
<td>Arm</td>
<td>Shoulder</td>
</tr>
<tr>
<td>S 46/48</td>
<td>56</td>
<td>59</td>
<td>17</td>
</tr>
<tr>
<td>M 50/52</td>
<td>60</td>
<td>61</td>
<td>18</td>
</tr>
<tr>
<td>L 54/56</td>
<td>64</td>
<td>62</td>
<td>19</td>
</tr>
<tr>
<td>XL 58/60</td>
<td>68</td>
<td>63</td>
<td>20</td>
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<tr>
<td>XXL 62/64</td>
<td>72</td>
<td>65</td>
<td>21</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Overall</th>
<th>Shirt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (cm)</td>
<td>Chest</td>
</tr>
<tr>
<td>S 46/48</td>
<td>56</td>
</tr>
<tr>
<td>M 50/52</td>
<td>60</td>
</tr>
<tr>
<td>L 54/56</td>
<td>64</td>
</tr>
<tr>
<td>XL 58/60</td>
<td>68</td>
</tr>
<tr>
<td>XXL 62/64</td>
<td>72</td>
</tr>
</tbody>
</table>

**Tolerance ± % 2**

Prepared according to EN 340/EN 13688 Standard.
ELECTRIC ARC PROTECTORS

ARC FLASH VISORS / GLOVES / GOGGLES / DIELECTRIC BOOTS

**ARC VISORS**

- **Paulson**
  - ATPV: 12cal/cm²
  - P/N: 07020910
  - ATPV: 25cal/cm²
  - P/N: 07020920

- **Scott Safety**
  - EN 166:2001 (6 kA)

**ARC GOGGLES**

- **Paulson**
  - ANSI Z87.1

**ARC GLOVES**

- **Charnay**
  - EN 47:12.6 cal/cm²

**DIELECTRIC BOOTS**

- **Respirex**
  - EN ISO 20345:2011/EURO/SEA CI
  - P/N: 14030844
  - Complete boot 20 kW, 8 hours
  - Sole 35 kW, 3 minutes

- **Eureka**
  - P/N: 07060816
  - Abrasion Resistance (3)
  - Cut Resistance (3)
  - Tear Resistance (4)
  - Puncture Resistance (4)

**P/N**

- 07020850
- 13216615
- 13216618
- 14030844
Industrial works involving heat and flame contain 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 89/686/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.

<table>
<thead>
<tr>
<th>Test Standard</th>
<th>Marking</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN ISO 15025 / Limited flame spread</td>
<td>A1</td>
<td>According to Procedure A</td>
</tr>
<tr>
<td>ISO 9131 / Convective heat</td>
<td>A2</td>
<td>According to Procedure B</td>
</tr>
<tr>
<td>EN ISO 6942 / Radiant heat</td>
<td>B1</td>
<td>4.0 sec &lt; HTI₂₅ &lt; 10.0 sec</td>
</tr>
<tr>
<td>ISO 9185 / Molten aluminium splash</td>
<td>B2</td>
<td>10.0 sec &lt; HTI₂₅ &lt; 20.0 sec</td>
</tr>
<tr>
<td>ISO 9185 / Molten-iron splash</td>
<td>B3</td>
<td>20.0 sec &lt; HTI₂₅</td>
</tr>
<tr>
<td>ISO 12127/ Contact heat</td>
<td>C1</td>
<td>7.0 sec &lt; HTI₂₅ &lt; 20.0 s</td>
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<tr>
<td></td>
<td>C2</td>
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</tr>
<tr>
<td></td>
<td>C4</td>
<td>95.0 sec &lt; HTI₂₅</td>
</tr>
<tr>
<td></td>
<td>D1</td>
<td>100g &lt; D1 &lt; 200g</td>
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<tr>
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<td>D2</td>
<td>200g &lt; D2 &lt; 350g</td>
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<tr>
<td></td>
<td>F1</td>
<td>5.0 sec &lt; T (sec) threshold value &lt; 10.0 sec</td>
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<tr>
<td></td>
<td>F2</td>
<td>10.0 sec &lt; T (sec) threshold value &lt; 15.0 sec</td>
</tr>
<tr>
<td></td>
<td>F3</td>
<td>15.0 sec &lt; T (sec) threshold value</td>
</tr>
</tbody>
</table>

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

Protective clothing for fire fighters: • Laboratory tests methods and performance requirements for wildland clothing

Protective clothing for fire fighters: • Requirements and test methods for fire hoods for fire fighters

Protective clothing for use in welding and allied processes

Protective clothing: • Electrostatic properties • Material performance and design requirements

Protective clothing against the thermal hazards of an electric arc: • Part 1-1: Test methods
  Method 1: Determination of the arc rating (XDPV or EBTSD) 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
<table>
<thead>
<tr>
<th>Model</th>
<th>EN ISO 11612</th>
<th>EN ISO 11611</th>
<th>EN 1169</th>
<th>EN 15614</th>
<th>EN 61482</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYRTEX® G1L PRO 250</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>FYRTEX® C1L PRO 250</td>
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<tr>
<td>FYRTEX® G1L PRO 145</td>
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<tr>
<td>FYRTEX® G1L CVC 275</td>
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<td>FYRTEX® UV 50</td>
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<td>FYRTEX® UV 100</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>46</td>
</tr>
</tbody>
</table>
FYRTEX® S1L PRO 145

(Shirt) Size: XS - 4XL

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

EN ISO 11612
EN 1149-3/5

- Protective against heat and flame
- Antistatic clothing

FYRTEX® UW 50

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

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

EN ISO 11612
EN 1149-3/5

- Designed as single layered
- Protective against heat and flame
- Protective against arc flash
- Antistatic clothing
Fyrtex® G1L PRO 250

(Jacket / Short Jacket / Trousers)

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

CE CAT II

EN ISO 11612
EN 15614
EN ISO 11611 CLASS 1
EN 1169-3/5

Size: XS - 4XL

Fyrtex® C1L PRO 250

(Coverall)

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

CE CAT II

EN ISO 11612
EN 15614
EN ISO 11611 CLASS 1
EN 1169-3/5

Size: XS - 4XL
FYRTEX® G1L CVC 275

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

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

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

Color Options

FYRTEX® C1L CVC 275

(Coverall)  Size: XS - 4XL

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

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

Color Options
METAL SPLASHGUARD 375 G1L

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

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

- Protective against heat and flame
- Welding suit
- Protective against molten metal splash
- Antistatic clothing
FYRTEX® G1L & C1L H3T 200

- Protective against heat and flame
- Antistatic clothing

FYRTEX® FH 100

- %99 Kerem® • %1 Antistatic Fiber
- 220 g/m²

FYRTEX® FH 50

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

Size: Standard
**FYRTEX® G - DWA C - DWA**

<table>
<thead>
<tr>
<th>Material Composition</th>
<th>Weight</th>
<th>Certifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>%50 Aramid • %50 Viscose FR</td>
<td>130 g/m²</td>
<td>EN ISO 11612 A1 EN 1149-3/5</td>
</tr>
<tr>
<td>%100 Aramid</td>
<td>100 g/m²</td>
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</tr>
<tr>
<td>%50 Aramid • %50 Viscose FR</td>
<td>130 g/m²</td>
<td></td>
</tr>
</tbody>
</table>

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

- 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**

<table>
<thead>
<tr>
<th>Material Composition</th>
<th>Weight</th>
<th>Certifications</th>
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<tbody>
<tr>
<td>%99 Kermel® • %1 Antistatic Fiber</td>
<td>220 g/m²</td>
<td>EN ISO 11612 A1 B1 C1 EN 1149-3/5</td>
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<tr>
<td>%50 Kermel® • %49 Lenzing® FR • %1 Antistatic Fiber</td>
<td>220 g/m²</td>
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(Knitted underwear) Size: XS - 4XL

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

<table>
<thead>
<tr>
<th>Size (cm)</th>
<th>Overall Chest</th>
<th>Arm</th>
<th>Inner Leg</th>
<th>Length</th>
<th>Shirt Chest</th>
<th>Arm</th>
<th>Shoulder</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 46/48</td>
<td>56</td>
<td>59</td>
<td>71</td>
<td>150</td>
<td>54</td>
<td>59</td>
<td>16</td>
<td>78</td>
</tr>
<tr>
<td>M 50/52</td>
<td>60</td>
<td>61</td>
<td>72</td>
<td>155</td>
<td>58</td>
<td>61</td>
<td>17</td>
<td>80</td>
</tr>
<tr>
<td>L 54/56</td>
<td>64</td>
<td>62</td>
<td>73</td>
<td>160</td>
<td>62</td>
<td>62</td>
<td>18</td>
<td>82</td>
</tr>
<tr>
<td>XL 58/60</td>
<td>68</td>
<td>63</td>
<td>74</td>
<td>165</td>
<td>66</td>
<td>63</td>
<td>19</td>
<td>84</td>
</tr>
<tr>
<td>XXL 62/64</td>
<td>72</td>
<td>65</td>
<td>76</td>
<td>170</td>
<td>70</td>
<td>65</td>
<td>20</td>
<td>86</td>
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<table>
<thead>
<tr>
<th>Size (cm)</th>
<th>Jacket Chest</th>
<th>Arm</th>
<th>Shoulder</th>
<th>Length</th>
<th>Short Jacket Chest</th>
<th>Arm</th>
<th>Shoulder</th>
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<tbody>
<tr>
<td>S 46/48</td>
<td>56</td>
<td>59</td>
<td>17</td>
<td>78</td>
<td>56</td>
<td>60</td>
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<td>67</td>
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<tr>
<td>M 50/52</td>
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<td>75</td>
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<tr>
<td>XXL 62/64</td>
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<td>86</td>
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<table>
<thead>
<tr>
<th>Size (cm)</th>
<th>Trousers Waist</th>
<th>Inner Leg</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
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<td>75</td>
<td>103</td>
</tr>
<tr>
<td>M 50/52</td>
<td>50</td>
<td>76</td>
<td>106</td>
</tr>
<tr>
<td>L 54/56</td>
<td>54</td>
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<td>78</td>
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</tr>
<tr>
<td>XXL 62/64</td>
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TOLERANCE ± %2
Prepared according to EN 340/EN 13688 standards.