



PROTECTIVE CLOTHING

EMERGENCY SHOWER



- FYRPRO® FIREFIGHTING SUITS**
- FYRAL® ALUMINIZED FIRE PROXIMITY SUITS**
- ELECTPRO® ELECTRIC ARC FLASH PROTECTIVE CLOTHINGS**
- FYRAL® MOLTEN METAL SPLASH PROTECTIVE CLOTHINGS**
- FYRTEX® WELDING SUITS**
- FYRTEX® FLAME RESISTANT WORKWEAR**
- FYR-KNIT® FLAME RESISTANT INNERWEAR**
- FYRHOOD® FLAME RESISTANT BALACLAVAS**
- ISTEX® DISPOSABLE COVERALLS**
- IST-EX® FIRE BLANKETS**

- ISTEC® SHOWERS & EYEBATHS**
- ISTEC® DECONTAMINATION SHOWERS**
- safeCAN® SAFETY CANS & CONTAINERS**
- safeCAN® SPILL CONTAINMENT PALLETS**
- safeCAB® FIRE SAFETY CABINETS & SAFETY STORAGE**
- ISTAIR® MOBILE BREATHING AIR SUPPLY UNITS**
- ISTAIR® AIR VENTILATION SYSTEMS**

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- The color and design presented in the catalog may vary from the actual product.
- This catalog and its contents are subject to change without notice.

OVER FOUR DECADES OF MANUFACTURING EXPERTISE

SINCE



1979



10,000+
Happy Customer
Records



Delivering Worldwide:
70+ Countries and
Growing!

IST SAFETY LTD

Established in 1979, we are a leading manufacturer of safety equipment; FR Protective Clothing | Emergency Safety Showers & Eyebaths | Safety Cans & Containers | Safety Cabinets & Storage | Mobile Breathing Air Supply Units.

Our factories drive the production of premium products that adhere to the highest quality standards. As a testament to our commitment to excellence, we hold the ISO 9001:2015 Quality Management System certificate as well as EN ISO/IEC 80079-34:2011 Explosive Atmospheres - Application of quality systems for equipment manufacture.

Our extensive network of distributors ensures prompt delivery and best service to customers both locally and worldwide. With an ever-expanding export volume, we proudly supply our products to over 70 countries across the world.



ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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INDEX OF THE PROTECTIVE CLOTHING



FYRPRO®
Firefighting Suits



FYRAL®
Aluminized Fire Proximity Suits



FYRTEX®
Flame Resistant Workwear for Industry



ELECTPRO®
Electric Arc Flash Protective Clothing



Metal Splash Guard & Molten Metal Splash Protective Clothing



Aluminized Protective Clothing against Molten Metal Splash and Radiant Heat



Welding Suits



FYRAL® HEATED



Heat and Flame Protective Underwear

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ISTEC® SHOWERS
& EYEBATHS**



**Eye/Face Washes,
ISTEC® Type EW**



**Drench Showers,
ISTEC® Type ES**



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Showers and Eye/Face
Washes, ISTECS® Type ESW**



**Self-Contained Overhead
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Showers, ISTECS® Type CCM**



**Freeze Protected Showers,
ISTEC® Type ICH**



**Mobile Safety Showers
ISTEC® Type MSS**



**Portable Eye Washes,
ISTEC® Type EW-P**



**Decontamination Showers
ISTEC® Type DECO**

Excellence in Protective Clothing Production: Crafting Standard and Customized Protection

Safety in Style: Our FR Protective Clothing Comply with (EU) 2016/425 Personal Protective Equipment Regulation.

- Firefighting Suits (FYRPRO®)
- Flame Resistant Workwear for Industry (FYRTEX®)
- Welding Suits & Molten Metal Splash Protective Clothings (Metal SplashGuard®)
- Electric Arc Flash Protective Clothings (ELECTPRO®)
- Aluminized Fire Proximity Suits (FYRAL®)
- Air Cooling Coveralls (FYRAL®)
- Disposable Coveralls (ISTEX®)
- Flame Resistant Knitted Underwear (FYR-KNIT® / FYRHOOD®)
- Protective Clothings Against Hot Steam and Fluids (STEAMPRO®)
- Fire Blankets (IST-ex®)
- Firefighter Jumping Sheet (IST-ex®)

- 🔥 **Safety First, Always:** Trust in FR products to Shield You from the Heat!
- 🔥 **Embrace Confidence:** Our Fire-Resistant Clothing Offers Excellent Protection in High-Risk Environments!
- 🔥 **Where Quality Meets Safety:** Discover the Excellence of Our Custom-Made Designs!
- 🔥 **Your Shield Against Fire:** Count on Our Expertise in Crafting Protection!
- 🔥 **Unyielding Protection, Unmatched Comfort:** Experience the Pinnacle of Safety!
- 🔥 **Ignite Your Safety Standards:** Elevate Protection with the Cutting-Edge products!
- 🔥 **A Flameproof Legacy:** We Lead the Industry in Delivering Top-Notch FR Solutions!
- 🔥 **Gear Up for Safety:** Trust the Experts in FR Protective Clothing!
- 🔥 **Blaze Through Safety Hazards:** Stay Safe with Our High-Performance workwear!



Contact Us for Personalized Flame-Resistant Solutions Tailored to Your Needs!

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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International Compliance, Unrivaled Protection:

At IST Safety Ltd, we take immense pride in delivering flame-resistant protective clothing that surpasses expectations and meets the highest international standards. Our commitment to quality and safety is unwavering, making us a trusted name in the industry.

Adhering to Stringent Regulations:

Our protective clothing comply with the most rigorous regulations, including the (EU) 2016/425 Personal Protective Equipment Regulation. We are committed to Compliance: CE Marked Products, Meeting the Latest Standards.

Premium Materials for Optimum Safety:

We understand that reliable protection starts with superior materials. That's why we exclusively use top-quality fabrics and raw materials, renowned for their exceptional flame-resistant properties.

Craftsmanship - The Art of Safety:

Behind each garment lies precision engineering and craftsmanship. Our skilled team meticulously designs and crafts every piece, ensuring unparalleled fit, comfort, and protection. From selecting materials to the final stitch, we maintain an uncompromising approach to deliver excellence.

Peace of Mind with Every Wear:

By choosing our flame-resistant protective clothing, you're choosing peace of mind. Whether you're a firefighter, industrial worker, or first responder, our garments are designed to stand up to the harshest environments, keeping you safe at all times.

Quality Assurance - Your Safety Guaranteed:

We take quality assurance seriously. Our products undergo rigorous testing and inspection at every stage of production. This commitment to excellence ensures that each garment leaving our facility is of the highest standard, ready to withstand the toughest challenges. Our company is ISO 9001:2015 Certified for Uncompromising Excellence.

Choose IST Safety Ltd:

When lives are on the line, there's no room for compromise. Join countless professionals worldwide who trust IST Safety Ltd for their flame-resistant protective clothing needs. Our dedication to international compliance, premium materials, and precision craftsmanship sets us apart, enabling you to face every hazard with confidence.

Kermel® is a registered trademark of Kermel SAS.

3M™ and Scotchlite™ are registered trademarks of 3M.

Lenzing™FR is a registered trademark of Lenzing AG.

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 Nomex

 Ievlar

 LENZING

 YSL

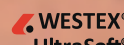
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 KERMEL

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YOUR COMPLETE SAFETY PARTNER FOR FR PROTECTIVE CLOTHING

Consultation Beyond Compare:

At IST Safety Ltd, our dedicated team offers expert consultation on a wide range of flame-resistant protective workwear. From electric arc flash protective clothing to firefighting suits and more, we provide tailored solutions with custom size dimensions and technical drawings to meet your specific needs.

Quality Assurance for Optimal Safety:

Choose from our diverse product range, which combines standard and optional designs. Our protective clothing solutions not only prioritize safety but also offer unparalleled comfort and flexibility to ensure ease of movement in your work environment.

Innovative Engineering Solutions:

Recognizing the unique purposes and certifications of each garment, our textile production workshop employs licensed cloth spreading software to craft the finest designs with precise stitching. IST Safety Ltd is fully equipped for standard and specially-designed garments that align perfectly with your requirements.

Enhance Your Protection with Complementary Accessories:

Complete your protective clothing ensemble with complementary accessories for comprehensive safety. Our range includes personal protective equipment for head, face, hands, respiratory, and foot protection, all adhering to the most stringent international standards.

Pre-Sales Support and Expert Modelling:

Before production, we employ advanced technical drawing software to design your protective clothing according to your preferences. Our technical team, in collaboration with your experts, conducts risk analysis to ensure the perfect selection of personal protective equipment for your facility.

Standards and Certification Assurance:

Rest assured, all our products undergo rigorous testing by notified bodies in Europe, fully complying with relevant European standards. Our expert technical team guides you through the selection process, verifying labels and certificates to guarantee authenticity.

Unparalleled After-Sales Support:

Your satisfaction is our priority. IST Safety Ltd provides comprehensive information, training, and maintenance solutions for all purchased products. We offer repair services for standard and specially-designed protective clothing, extending the lifespan of your investment.

Confidence in Our Promise:

For your peace of mind, all our products come with warranty against production and workmanship defects. Our knowledgeable sales representatives are ready to provide training on product usage, ensuring optimal safety for your team.

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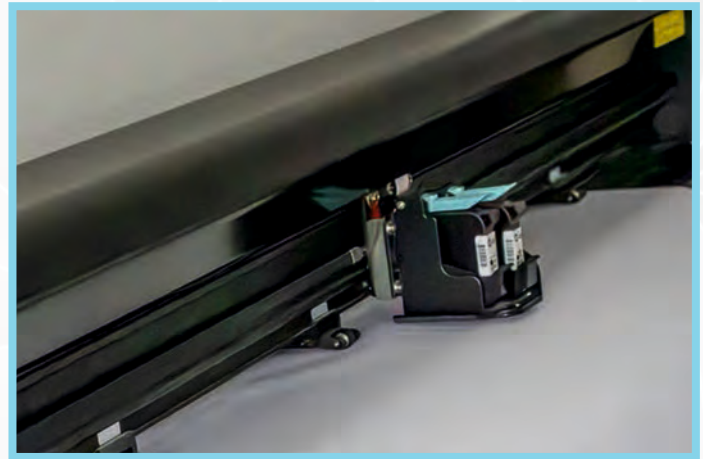
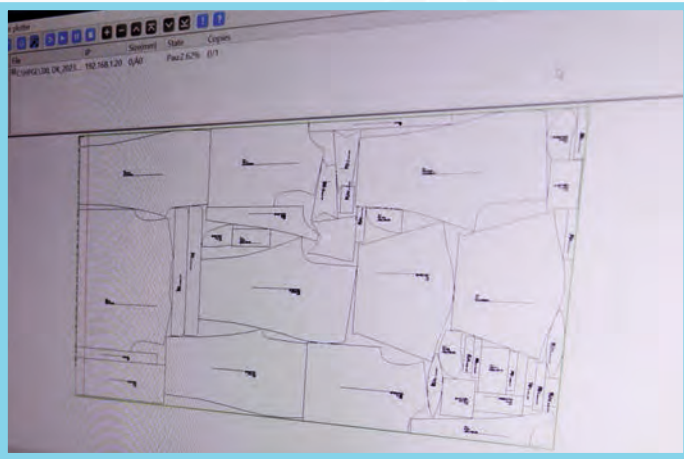
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CUSTOM DESIGN



At IST Safety Ltd, our prowess in producing custom-made flame-resistant protective clothing is unmatched. Armed with cutting-edge design softwares and advanced technologies, we create tailored solutions that perfectly match your specific needs. Whether it's industrial workwear, electric arc flash protective garments, firefighting suits, or balaclavas, our experienced team ensures each piece is meticulously crafted to provide optimal protection without compromising on comfort and mobility. To ensure seamless communication and up-to-date information, we also utilize a sophisticated Customer Relationship Management (CRM) system, allowing us to keep track of your requirements and preferences, guaranteeing a smooth and efficient collaboration throughout the entire process.



MANIKIN TEST FOR **FYRPRO**[®] SERIES FIREFIGHTING SUITS



Our firefighting suits are engineered with utmost precision, and we prioritize safety above all else. As evidence of our dedication to ensuring maximum protection, each suit undergoes rigorous testing, including the Manikin Test to see the burn injury results. The RALPH manikin together with the associated test facility has been built to comply with ISO 13506-2: 2017. The burn injury results are expressed according to clause 8.3.3 of ISO 13506-2: 2017 which calculates the percentage burn injury based on the total area of manikin covered by the garments under test being 100%. This comprehensive evaluation assesses the garment's ability to withstand extreme heat and flame exposure, providing vital insights into its performance under hazardous conditions.

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ISTEC®

SHOWERS & EYEBATHS

We proudly manufacture the following products, adhering to industry-leading standards, including ANSI/ISEA Z358.1, 2014/34/EU ATEX Directive, 2014/68/EU Pressure Equipment Directive. With a strong commitment to safety and quality, our safety showers are designed to meet the most stringent requirements, ensuring reliable performance in hazardous environments.

- Eye/Face Washes (ISTEC® Type EW)
- Drench Showers (ISTEC® Type ES)
- Combined Emergency Safety Showers and Eye/Face Washes (ISTEC® Type ESW)
- Trace Heated, Jacketed and Insulated Showers (ISTEC® Type ICH)
- Overhead Tank Showers (ISTEC® Type OWT)
- Cubicle Cabin Mounted Showers (ISTEC® Type CCM)
- Freeze-Proof Showers (ISTEC® Type ESW)- Mobile Safety Showers (ISTEC® Type MSS)
- Self-Contained Portable Eyewash Stations (ISTEC® Type ESW-P)
- Decontamination Showers (ISTEC® Type DECO)
- Safety Cans & Containers (safeCAN®)
- Fire Safety Cabinets & Storage (safeCAB®)
- Mobile Breathing Air Supply Units (ISTAIR®)
- Tailored Emergency Safety Showers with Water Tanks for Outdoor or Indoor (Exproof or Non-Exproof)
- Engineered Solutions



EN 15154-1



EN 15154-2



EN 15154-3



EN 15154-4



EN 15154-5



EN 15154-6



Emergency Safety Showers: Your Tailored Safety Solutions

At IST Safety Ltd, our Emergency Safety Shower Division offers an array of specialized services tailored to your needs. We provide comprehensive engineering consultation on emergency safety showers and eye/face washes, safety storage & carrying and plunger & bench cans/containers, fire safety cabinets, spill containment pallets, CBRNe decontamination showers, and mobile breathing air supply units. Our experienced team is dedicated to guiding you towards the most economical and efficient solutions for your new plant installation or facility renovation.

Ensuring Quality and Safety is paramount in our product selection. Our diverse range offers standard and optional designs, featuring systems for both interior and exterior applications. With options for heating or cooling, freeze protection, and portable or fixed installations, we cater to various requirements, delivering high-quality systems.

We pride ourselves on providing Special Engineering Solutions tailored to your specific needs. Recognizing that each emergency shower serves distinct purposes, we understand that standardized units may not always suffice. That's why we are fully equipped to produce custom-designed systems, guaranteeing the perfect fit for your requirements.

Our Expert Team focuses on Adjusting Water Temperature to meet American and European standards, ensuring tepid water supply between 16 - 38°C. We carefully analyze your facility's resources to offer solutions that ensure optimal functioning of emergency showers and eye/face washes under all circumstances, working in coordination with your design or expert team.

To provide you with a comprehensive view, we offer Pre-Sales Solid Modelling and Technical Drawing services. Utilizing advanced three-dimensional solid modelling software, we create customized design and engineering solutions, enabling you to assess the suitability of our products for your facility and plan projects efficiently.

Even after your purchase, our commitment to exceptional service continues. Our expert technicians evaluate existing emergency shower and eye/face wash systems, ensuring compliance with ANSI and EN standards. We provide training and product setup assistance for your new emergency shower, ensuring a seamless integration into your facility.

All our products are guaranteed against production and workmanship defects for a period of 24 months, reflecting our confidence in the quality and reliability of our offerings.



Discover the Future of Emergency Safety Showers: Introducing Our Interactive 3D Configurator!

At IST Safety Ltd, we believe in innovation that empowers our customers. That's why we are thrilled to introduce our cutting-edge Interactive 3D Configurator, exclusively available on our website.

With this revolutionary tool, you can now tailor your required tank shower to perfection in an immersive 3D environment. Create the ideal solution by selecting the necessary features, such as chiller, heater, audible and visual alarm, flow switch, and more, all at your fingertips. Visualize the configuration in real-time, giving you unparalleled insights into your customized emergency shower.



3D Innovations

**CREATE YOUR OWN
CONFIGURATION!**



**AUTODESK
AUTOCAD**



Corel **DRAW**
Graphics Suite



Adobe

**SIEMENS
SOLID EDGE**

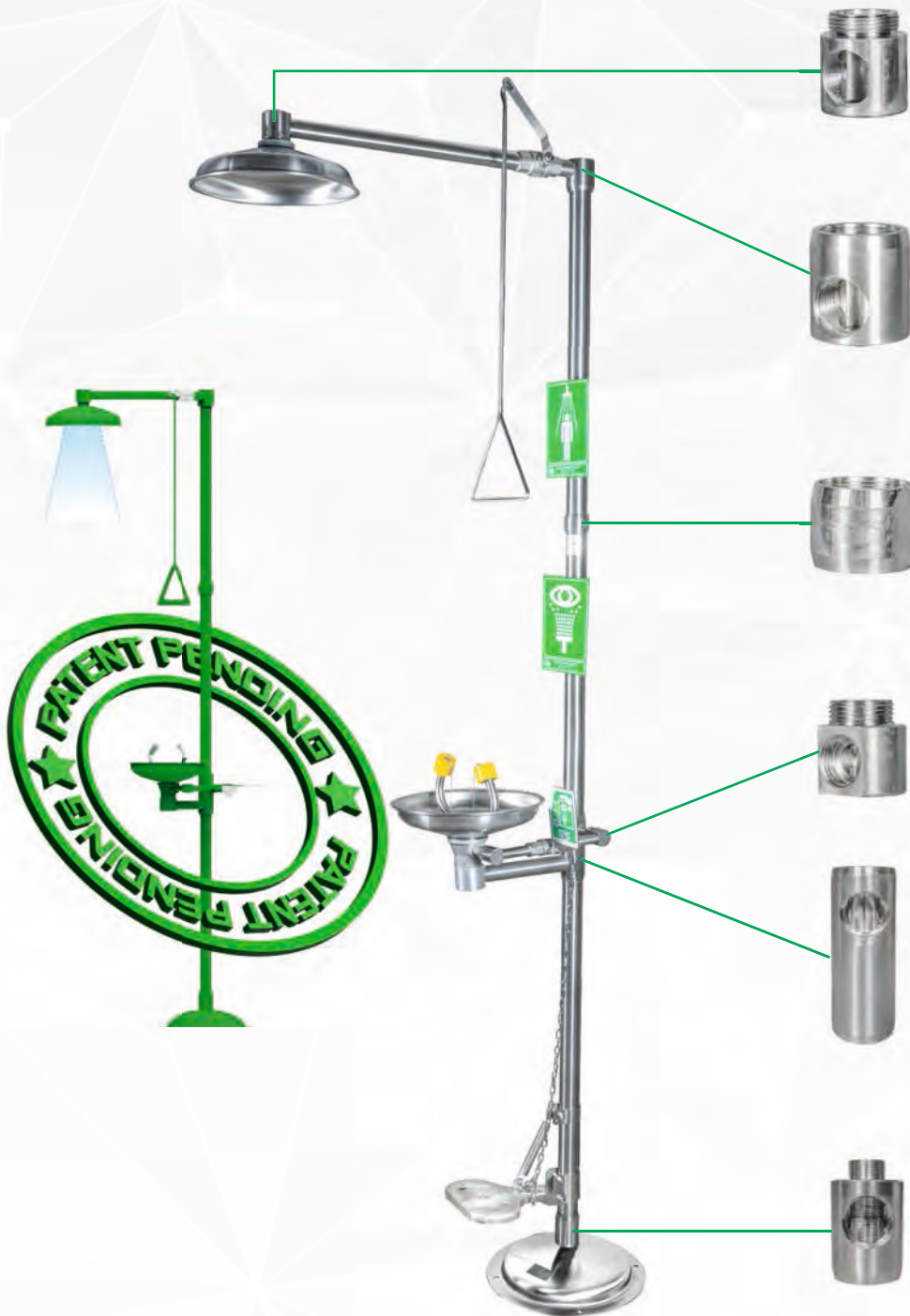
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Innovative Patent-Pending Solution for ISTECS® Showers & Eyebaths



Our revolutionary invention eliminates the need for welding in connection points by utilizing special materials, making it the ideal choice for occupational safety and first aid equipment used in workplaces. By eliminating welding in connection parts, especially in areas where corrosion is prevalent, our emergency safety showers, made from durable steel, boast an extended lifespan. The threaded structure of our innovative materials facilitates easy assembly and disassembly, allowing for compact packaging. The threaded connection feature also eliminates the need for welding and minimizes welding-related risks. Through our proprietary custom connectors, we have reduced the number of connection elements used in the product while achieving a refined aesthetic appearance. With our unique connectors, we offer products in different sizes and shapes, catering to diverse customer needs and allowing them to customize the products to their exact requirements. Embrace the future of smart, efficient, and customized units with ISTECS® Showers & Eyebaths, where innovation meets safety.



Introducing Our Latest Development: ISTE[®] Showers & Eyebaths are ATEX Zone 1, 2 Certified!

The latest addition to our esteemed range of emergency safety showers is ATEX Zone 1, 2 Certification, in accordance with the IEC TS 60079-46:2017 standard for Explosive Atmospheres - Part 46: Equipment Assemblies.

What sets our emergency safety showers apart is our unwavering commitment to safety. Unlike some other manufacturers, we supply our emergency showers with their own ATEX certification encompassing the entire unit, including all accessories such as chiller, heater, audible and visual alarm, flow switch, and more. This holistic approach ensures that the entire assembly complies with ATEX standards, providing a truly safe and reliable solution for hazardous environments.



Introducing Smart Emergency Safety Showers - The Future of Workplace Safety!

For large premises, we offer Cost-Effective Simple Automation Technology with ATEX LED Indicators, revolutionizing monitoring the status of the shower. LED indicators enable real-time monitoring of emergency showers scattered across diverse geographic locations. It provides valuable insights into water tank levels, water temperature, system malfunctions, and usage status, ensuring optimal safety and efficiency in managing emergency shower systems.



THE STANDARDS OF EMERGENCY SAFETY SHOWERS



ANSI/ISEA Z358.1-2014

ANSI/ISEA Z358.1-2014 is a crucial standard established by the American National Standards Institute (ANSI) and the International Safety Equipment Association (ISEA). It sets forth comprehensive guidelines for the design, performance, and maintenance of emergency eyewash and shower equipment, ensuring effective mitigation of injuries resulting from hazardous chemical exposures to the eyes and body. This standard specifies essential requirements for eyewash stations and safety showers, including water flow rates, positioning, and accessibility, while emphasizing regular testing and maintenance to uphold the equipment's optimal functionality and, ultimately, safeguarding the well-being of workers in hazardous environments.



EN 15154-1: This standard specifies the requirements for emergency safety showers designed to rinse and decontaminate the body when exposed to hazardous substances. It covers aspects such as water flow rates, location, and accessibility of safety showers to ensure efficient response in emergency situations.



EN 15154-2: Outlines the requirements for emergency eyewash devices. It provides guidelines for water flow rates, positioning, and design to effectively flush and cleanse the eyes when exposed to hazardous materials.



EN 15154-3: Emergency safety showers - Part 3: Non plumbed-in body showers - This European Standard is a product specification, giving minimum performance requirements for non plumbed-in emergency safety body showers.



EN 15154-4: Emergency safety showers - Part 4: Non plumbed-in eyewash units - This standard is a product specification, giving minimum performance requirements for non plumbed-in emergency safety eyewash units.



EN 15154-5: Emergency safety showers. Water overhead body showers for sites other than laboratories. Performance requirements for water overhead emergency safety body showers installed on industrial and logistic sites, (in combination with safety eyewashes and hand-held showers as well), a) which are permanently connected to a water supply; or b) which are equipped with a store tank and optionally connected to an uninterrupted or a temporary water supply. Emergency safety body showers using fluid other than water are not considered in this standard.



EN 15154-6: Emergency safety showers. Plumbed-in multiple nozzle body showers for sites other than laboratories. Performance requirements for plumbed-in multiple nozzle emergency safety body showers which are permanently connected to a water supply and installed on industrial and logistic sites.



ATEX Explosive Atmospheres Compliance for Showers (2014/34/EU) :

ATEX is a European Union directive that focuses on the safety of equipment used in potentially explosive atmospheres. In the context of emergency safety showers, compliance with ATEX ensures that these critical devices are designed and constructed to prevent the ignition of flammable substances or gases in hazardous environments. By meeting ATEX requirements, emergency safety showers are deemed suitable for use in areas where explosive atmospheres may be present, providing essential protection for personnel working with or around volatile substances.



TR CU 012 and EAC - Ensuring Safety in Explosive Atmospheres:

TR CU 012, the Technical Regulation for Safety of Equipment for Work in Explosive Atmospheres, is a vital standard within the Eurasian Economic Union (EAEU) that mandates safety requirements for equipment used in potentially explosive environments. Compliance with TR CU 012 ensures that safety equipment, including emergency safety showers, is designed, manufactured, and tested to prevent ignition and explosion risks in hazardous

THE IMPORTANT DIRECTIVES AND STANDARDS OF PROTECTIVE CLOTHING



EU 2016/425 Personal Protective Equipment Directive: The aim of this regulation is to ensure common standards for personal protective equipment (PPE) in terms of protection of health and the safety of users, while enabling the free movement of PPE. This regulation ensures that PPE provides effective protection without compromising on comfort or usability. It covers the design, manufacture and marketing of PPE. It defines legal obligations to ensure that PPE on the market provides the highest level of protection against risks. The CE marking (EN •••) affixed to PPE provides evidence of compliance of the product with the applicable EU legislation. The CE marking must be accompanied by the identification number of the notified body (CE ••••).



MED (Marine Equipment Directive) 2014/90/EU and SOLAS: The Marine Equipment Directive (MED) and the Safety of Life at Sea (SOLAS) convention are critical international regulations ensuring the safety of marine equipment. Products that meet MED requirements prove their reliability for safe use on vessels and offshore installations.



Module B (EU type-examination certificate): Module B certificate indicates that PPE have undergone rigorous testing and meet the essential health and safety requirements set by the EU 2016/425 Directive. This certification attests to the high quality and reliability of products. Category II and III PPE must be independently type tested by a Notified Body accredited by European Commission to demonstrate that it meets the requirements of the applicable standards in EU legislation.



Module D (production quality system monitoring): The Module D certificate signifies that PPE have undergone thorough internal production checks. This certification ensures consistent product quality and adherence to safety standards during the manufacturing process. This involves visiting the manufacturing site and checking that the Factory Production Control Systems used by the manufacturer are capable of enabling consistent production of the CE marked PPE. Category III PPE must undergo annual checking by an accredited Notified Body.



ISO 13506-2: 2017: ISO 13506-2:2017 provides technical details for calculating predicted burn injury to human skin when its surface is subject to a varying heat flux, such as may occur due to energy transmitted through and by a garment or protective clothing ensemble exposed to flames.



EN 469: Performance requirements for protective clothing for firefighting. EN ISO 469 specifies the minimum required levels for protective clothing that is used during firefighting procedures and associated activities.



EN 1486: EN 1486 specifies requirements for Protective Clothing for Firefighters, Reflective Clothing for Special Fire Fighting designed to protect during firefighting and rescue operations, based on the ability of the outer material to reflect intense radiant heat.



IEC 61482: IEC 61482 outlines safety requirements for protective clothing to safeguard wearers from electric arc hazards. Clothing that is certified in accordance with IEC 61482-2 protects against the thermal hazards associated with electric arcs.



EN ISO 11612: EN ISO 11612 sets performance requirements for protective clothing against heat and flame, ensuring the safety of workers exposed to such hazards.



EN ISO 11611: EN ISO 11611 specifies requirements for protective clothing used during welding and allied processes, safeguarding workers from welding-related hazards.



EN 13911: EN 13911 specifies minimum safety requirements and test methods for a fire hood (balaclava) to be worn during firefighting operations to protect against heat and fire. This standard only applies in situations when protective clothing (EN 469), breathing apparatus (EN 136 and EN 137), and helmet (EN 443) are also worn.



EN ISO 13688: EN ISO 13688 outlines general requirements for protective clothing, ensuring comfort, ergonomics, and ease of use.

EN 1149: EN 1149 sets requirements for protective clothing designed to protect against electrostatic discharge in hazardous environments.
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Why Choose ISTE[®] Showers & Eyebaths?



Internationally Certified Safety:

Our emergency safety showers hold prestigious international certifications, including ANSI/ISEA Z358.1-2014, EN 15154, ATEX, and EAC. These standards attest to their exceptional performance and compliance, ensuring maximum protection in hazardous environments.

Proven by UL Listing:

ISTEC[®] emergency safety showers are "UL Listed" products, independently tested and approved by Underwriters Laboratories for safety, durability, and high-quality.

Decades of Expertise:

With over 44 years of experience, we are an ISO 9001:2015 certified company committed to delivering high-quality solutions that surpass expectations.

In-House Manufacturing & Quality Control:

Our modern facilities enable 100% quality control during production, ensuring every emergency safety shower meets our stringent standards.

Partnering with Leading Suppliers:

Collaborating with industry-leading suppliers allows us to utilize high-quality raw materials in our production, further enhancing the reliability of our products.

Innovative Corrosion-Resistant Design:

ISTEC[®] emergency safety showers feature our company's innovation - special connection parts made of corrosion-resistant seamless and weldless steel, enhancing longevity and performance.

Lifetime Spare Parts Guarantee:

Purchasing from us grants lifetime spare parts support, enabled by our barcode system that allows easy product tracking.

Customer-Centric Warranty:

All our products are backed by a 24-month warranty against manufacturing defects, emphasizing our dedication to customer satisfaction even after sales.

Sustainable Design:

Our commitment to sustainability shines through in our product design, ensuring maximum lifespan and reduced environmental impact.

Rapid Production & Delivery:

High mass production capacity enables us to offer exceptionally short lead times, providing you with prompt and reliable service.

Comprehensive Support:

Expert product installation and training support, coupled with high-quality packaging, ensures the best experience with ISTE[®] Showers & Eyebaths.

Customer-Focused After-Sales Service:

We take pride in achieving high customer satisfaction through dedicated after-sales support, catering to your needs throughout the product's lifespan.

ООО «ТИ-СИСТЕМС» - ИЖИТНИ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЕ

Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tisec.ru www.tisystems.com

Телефоны: +7 (415) 7774788, 7409626, (925) 5007150, 6500000

Эл. пошта: info@tisys.ru info@tisys.kz info@tisys.by

Tailored Solutions, Cost-Effective Results:

Our expert team recommends the most suitable product, providing customized options to avoid unnecessary costs.

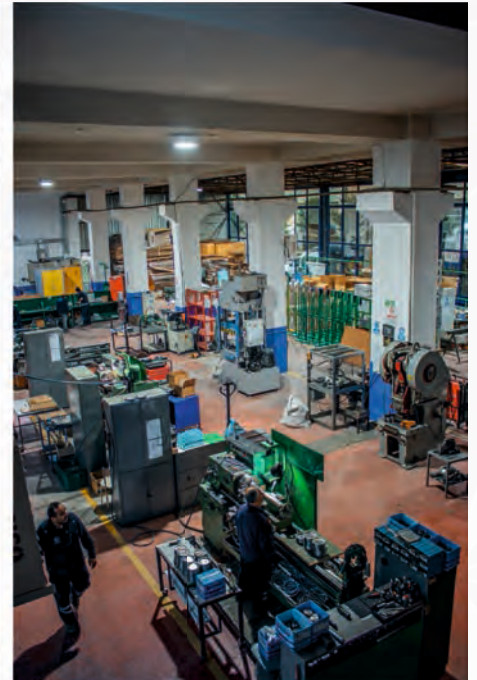
Bespoke Technical Documentation:

ISTEC® Showers & Eyebaths provide specialized technical documents for your specific product, facilitating seamless integration into your facility.

Global Reach & Trusted Use:

Our products are exported to over 70 countries, chosen for their reliability and used safely worldwide.

When it comes to emergency safety showers, ISTEC® Showers & Eyebaths stand tall as your reliable partner, delivering complete tailored safety solutions backed by expertise, certifications, and unparalleled commitment to customer satisfaction.



FYRPRO® FIREFIGHTING SUITS

Firefighting contains various kind of risks which effects human health. Specially designed equipment under (EU) 2016/425 Personal Protective Equipment should be used to remove those effects.

FYRPRO® series not only protect human body from the flames, but also keep heat stress of the high temperatures below the limits of human metabolism can handle.

To reduce the possible risks;

- Proper training and practice in firefighting and emergency tactics and safety before usage,
- Proper selection and use of safety equipment,
- Knowledge of design, performance and use limitations of EN standards.

FYRPRO® series fireman suits 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 the garments according to the requirements of different risk groups, alternative layer systems are designed.

According to these performances, firefighting suits are divided into two; Level 1 and Level 2.

Level 2 suits have higher performances than Level 1 suits. A suit to have Level 2 protection, all X_f, X_r, Y and Z levels should be submitted as grade 2. If one of them falls as Level 1, suit will be Level 1 totally. As mentioned in (EU) 2016/425 Personal Protective Equipment directive, firefighting suits are under Category III.

TESTS	TEST METHOD	PERFORMANCE LEVELS			
		LEVEL 1	MARKING	LEVEL 2	MARKING
Heat transfer (Flame)	EN ISO 9151	HTI ₂₄ ≥ 9s HTI ₂₄ - HTI ₁₂ ≥ 3s	X _f 1	HTI ₂₄ ≥ 13s HTI ₂₄ - HTI ₁₂ ≥ 4s	X _f 2
Heat transfer (Radiant)	EN ISO 6942	RHTI ₂₄ ≥ 10s RHTI ₂₄ - RHTI ₁₂ ≥ 3s	X _r 1	RHTI ₂₄ ≥ 18s RHTI ₂₄ - RHTI ₁₂ ≥ 4s	X _r 2
Resistance to Water Permeability	EN ISO 811	Level 1 < 20kPa (without moisture barrier)	Y1	Level 2 ≥ 20kPa (with moisture barrier)	Y2
Water Vapour Permeability	EN ISO 11092	30m ² Pa/W < Level 1 < 45m ² Pa/W	Z1	Level 2 ≤ 30 m ² Pa/W	Z2



EN 469

- Protective garments for firefighters
- Protective garments used during fire



EN 1149-3/5

- Protection from static electricity (Electrostatic properties)

FYRPRO® Matrix

MODEL	EN 469		MED
	Level 1	Level 2	
FYRPRO® NXT		✓	✓
FYRPRO® NXT-C		✓	✓
FYRPRO® 750		✓	✓
FYRPRO® 750C		✓	✓
FYRPRO® 730	✓		✓
FYRPRO® 730C	✓		✓

EN 469	TEST / PROPERTY	METHOD
4.0	General clothing design	EN ISO 13688
6.2.1.1	Limited flame spread (outershell and inner liner)	EN ISO 15025 (A)
6.2.1.2	Contact heat test	EN ISO 12127-1
6.2.1.3	Heat transfer (flame)	EN ISO 9151 (X1 or X2)
6.2.1.4	Heat transfer (radiant)	EN ISO 6942 (X1 or X2)
6.2.1.5	Residual tensile strength of material when exposed to radiant heat	EN ISO 13934-1 EN ISO 6942
6.2.1.6	Heat resistance	ISO 17493
6.2.2	Penetration by liquid chemicals	EN ISO 6530
6.2.3.1	Tensile strength - outer shell material Tensile strength - main seams	EN ISO 13934-1 EN ISO 13935-2
6.2.3.2	Tear strength	EN ISO 13937-2
6.2.4	Resistance to water penetration	EN 20811 (Y1 or Y2)
6.2.5	Dimensional change	EN ISO 13688
6.2.6	Visibility	EN ISO 20471/471
6.3.1	Water vapour resistance	EN 11092 (Z1 or Z2)
8.1	Marking	EN ISO 13688
8.2	Information supplied by the manufacturer	EN ISO 13688

SIZE CHART

SIZE	LENGTH (cm)	CHEST (cm)	WAIST (cm)
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
In compliance with EN ISO 13688.

Valid for FYRPRO®

STANDARD DESIGN FEATURES



Protective neck collar and quick-release zipper



Hooks for gloves



Radio strap



Velcro attachment for name tag



Adjustable radio pocket



Thumbhole design, metaaramid knitted wristlet

- FYRPRO® firefighting jacket and trousers are designed in accordance with the relevant European standards.
- The lightweight thermal lining ensures the excellent comfort.
- The latest technology outer layer of the garment is an antistatic, high abrasion and puncture resistant fabric that is water and oil repellent.
- The outer layer provides a stylish appearance with its modern rips woven weave.
- The cuff is metaaramid knitted and provided with thumbhole design.
- The cuffs and collar are with adjustable FR hook and loop for width adjustment. You can easily make adjustments while wearing gloves.
- Additional part under the armpits for optimum freedom and ease of movement.
- FR hook and loop for name tag is available on the right chest.
- All sewing threads used in the garment are 100% aramid.
- The reflective tapes are 50 mm yellow/silver/yellow aramid backed fire retardant retro reflective trims. Segmented reflective tape option is also available.
- FR permanent, metal brass or polyester, open end, quick release zip with flap, FR velcros, FR sewing threads, neck protection are available for extra protection.
- Extra deep pockets with flaps with hook and loop closure on both sides of the bottom of jacket, a length and width adjustable radio/cell phone pocket on the left chest and an adjustable loop for hanging a flashlight.
- Inner paper pocket with hook and loop closure.
- A carabiner (D-ring) for hanging gloves is available on the left pocket.
- Elastic waistband is available in trousers.
- The trousers are designed with additional components such as hook and loop, elastic waist and suspenders (braces) and has ergonomic flexible design.
- Front fly closure with FR hook and loop and zipper.
- Labels of FYRPRO® fireman garments are in compliance with (EU) 2016/425 Personal Protective Equipment (PPE) regulation. An instruction and maintenance manual in four languages are provided along with each garment.
- All FYRPRO® firefighting suits are supplied in a carrying bag in black color.

FYRPRO®

FIREFIGHTING SUITS

OPTIONAL DESIGN FEATURES



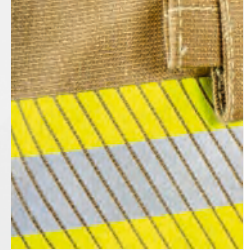
Side cargo pockets



Back writing with detachable patch



Anti-wicking barrier



50 or 75 mm Segmented Reflective Tapes



Silicon coated aramid reinforcement on elbows



Additional pockets in various sizes



Silicon coated aramid reinforcement on knees + padding

- Aramid silicon reinforcement on knees and elbows
- Pre-bent ergonomically pre-shaped knees and elbows
- Padded shoulders and knees
- Aramid silicon reinforcement on leg ends and sleeve ends
- Aramid silicon reinforcement on shoulders and jacket ends
- Aramid felt reinforcement on knees
- Double layer reinforcement on shoulders
- Side cargo pockets with flap on trousers
- Anti-wicking barriers at leg ends, bottom of jacket and cuffs
- Silver reflective writing(s) on back or front of jacket
- Embroidery logo(s)
- High waisted trousers
- Removable brace system
- Napoleon pocket, upper arm pocket (or any additional pockets)
- Zipper at boots' top and side vents
- Aramid DRD (Drag rescue device)
- Detachable inner liner with zipper or hook and loop material
- Inspection opening zipper

FYRPRO® FIREFIGHTING SUITS

FYRPRO® NXT / NXT-C FIREFIGHTING SUIT (JACKET AND TROUSERS / COVERALL)

- P/N** : 13152368 (Jacket and Trousers)-13152869 (Coverall)
- Outershell** : Nomex® NXT (75% Nomex®, 23% Kevlar®, 2% P140)
- Moisture barrier** : FR-FELT + PTFE(R) 80% Metaaramid, 20% Paraaramid + PTFE membrane
- Heat barrier** : 100% Kermel® nonwoven fabric quilted to inner lining
- Inner Liner** : 50% Kermel®, 50% Lenzing™FR
- Layer System** : 4-layered



EN 469: 2020

EN 1149-3/5

EN ISO 13688

MED

Level 2
X2 Y2 Z2

PPE
Personal Protective
Equipment
Category III
REGULATION
(EU)2016/425

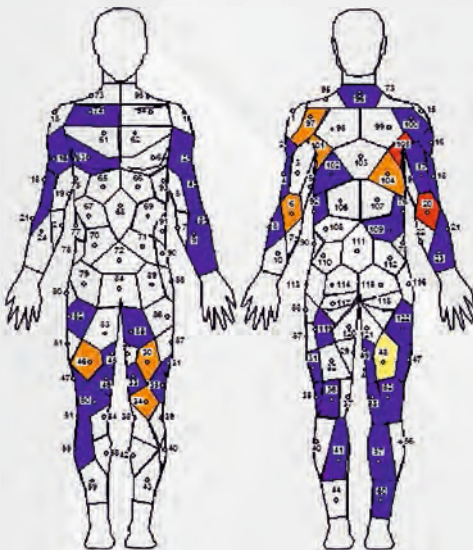


Colour Options

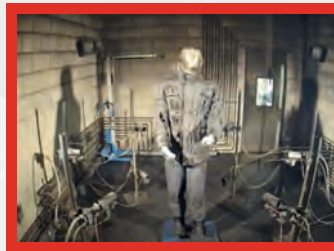
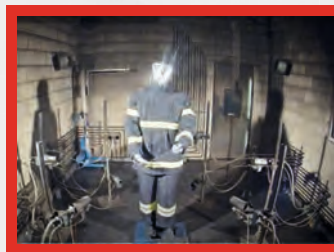


Nomex® Kevlar® LENZING™ KERMEL® FYRPRO® X Series

FYRPRO® NXT Fireman Suit which is the 1st of the new X-Series firefighting garments is used to protect firefighters from the negative effects of water, flame and heat that occur during firefighting operations. The latest and innovative technologies in technical textile meet our next generation firefighting turnout gears of the new X-Series which ensure the great comfort, performance and protection during firefighting applications.



- Pain
- 1st° Burn: 1.6%
- 2nd° Burn: 4.9%
- 3rd° Burn: 0.0%



MANIKIN TEST FOR FYRPRO® NXT



FYRPRO® FIREFIGHTING SUITS

FYRPRO® XTREME FIREFIGHTING SUIT (JACKET AND TROUSERS)

- P/N : 13152370
 Outershell : 75% Meta-aramid, 23% Para-aramid, 2% Antistatic fiber
 Moisture Barrier : FR-FELT + PTFE(R)
 Heat Barrier : 100% Kermel® nonwoven fabric quilted to inner lining
 Inner Liner : 50% Kermel®, 50% Lenzing™FR
 Layer System : 4-layered



Colour Options

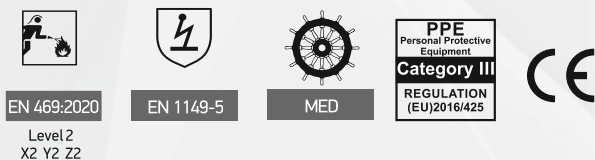


LENZING™ KERMEL

FYRPRO®
X
 Series

FYRPRO® XTREME-C FIREFIGHTING COVERALL

- P/N : 13152371
 Outershell : 75% Meta-aramid, 23% Para-aramid, 2% Antistatic fiber
 Moisture Barrier : FR-FELT + PTFE(R)
 Heat Barrier : 100% Kermel® nonwoven fabric quilted to inner lining
 Inner Liner : 50% Kermel®, 50% Lenzing™FR
 Layer System : 4-layered



Colour Options



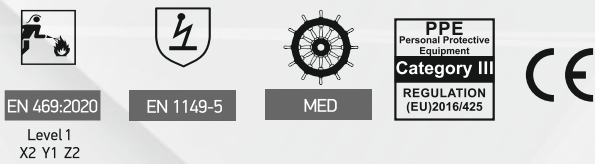
LENZING™ KERMEL

FYRPRO®
X
 Series

FYRPRO® FIREFIGHTING SUITS

FYRPRO® XPERT FIREFIGHTING SUIT (JACKET AND TROUSERS)

- P/N : 13152372
Outershell : 75% Meta-aramid, 23% Para-aramid, 2% Antistatic fiber
Heat Barrier : 100% Kermel® nonwoven fabric quilted to inner lining
Inner Liner : 50% Kermel®, 50% Lenzing™FR
Layer System : 3-layered



Colour Options

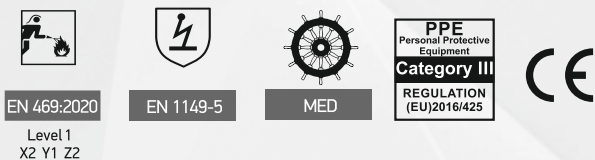


LENZING™ KERMEL



FYRPRO® XPERT-C FIREFIGHTING COVERALL

- P/N : 13152373
Outershell : 75% Meta-aramid, 23% Para-aramid, 2% Antistatic fiber
Heat Barrier : 100% Kermel® nonwoven fabric quilted to inner lining
Inner Liner : 50% Kermel®, 50% Lenzing™FR
Layer System : 3-layered



Colour Options



LENZING™ KERMEL



FYRPRO® FIREFIGHTING SUITS

FYRPRO® 750 FIREFIGHTING SUIT (JACKET AND TROUSERS)

- P/N : 13614545
Outershell : 75% Meta-Aramid+ 23% Para-Aramid + 2% Antistatic fiber
Moisture Barrier : FR knitted fabric + PU membrane lamination
Heat Barrier : 100% Kermel® nonwoven fabric quilted to inner lining
Inner Liner : 50% Kermel®, 50% Lenzing™FR
Layer System : 4-layered



EN 469
Level 2
X2 Y2 Z2



EN 1149-3/5



MED



Colour Options



LENZING™ KERMEL

FYRPRO® 750C FIREFIGHTING COVERALL

- P/N : 13614445
Outershell : 75% Meta-Aramid + 23% Para-Aramid + 2% Antistatic fiber
Moisture Barrier : FR knitted fabric + PU membrane lamination
Heat Barrier : 100% Kermel® nonwoven fabric quilted to inner lining
Inner Liner : 50% Kermel®, 50% Lenzing™FR
Layer System : 4-layered



EN 469
Level 2
X2 Y2 Z2



EN 1149-3/5



MED



Colour Options



LENZING™ KERMEL

FYRPRO®[®] FIREFIGHTING SUITS

FYRPRO® 730 FIREFIGHTING SUIT (JACKET AND TROUSERS)

- P/N : 13614546
Outershell : 75% Meta-Aramid + 23% Para-Aramid
+ 2 % Antistatic fiber
Heat Barrier : 100% Kermel® nonwoven fabric
quilted to inner lining
Inner Liner : 50% Kermel®, 50% Lenzing™FR
Layer System : 3-layered



EN 469

Level 1
X2 Y1 Z2



EN 1149-3/5



MED



Colour Options



LENZING™ KERMEL

FYRPRO® 730C FIREFIGHTING COVERALL

- P/N : 13614547
Outershell : 75% Meta-Aramid + 23% Para-Aramid
+ 2 % Antistatic fiber
Heat Barrier : 100% Kermel® nonwoven fabric
quilted to inner lining
Inner Liner : 50% Kermel®, 50% Lenzing™FR
Layer System : 3-layered



EN 469

Level 1
X2 Y1 Z2



EN 1149-3/5



MED



Colour Options



LENZING™ KERMEL

FYRPRO® FIREMAN EQUIPMENT

PAB FIRE 05 FIREFIGHTING HELMET

P/N : 14020990
 Electrical insulation capacity : E2, E3n FR
 Neck protector : Aluminized Carbon Fabric
 Chemical resistance according to : Type b3B
 Weight : 1540 ± 30 g



EN 443 EN 166 EN 14458

Eye protection (**Optic protection: Class 1 according to EN 14458**)
 Antiscratch and antifog visor (**Optic protection: Class 1 according to EN 14458**)
 Antiscratch and antifog goggles,
 Extreme temperature resistance up to 1000°C
 in a ten-second flash over flames,
 Long-term temperature resistance,
 High resistance to mechanical impacts,
 Visor resistant to high energy impacts,
 Full head protection (**Including neck and face**),
 Shock absorber

Colour Options



Optional accessories;

UK eLED RFL 4AA Headlamp (ATEX certified).
 Led Fire 05 Headlamp (ATEX certified).



PAB FIRE COMPACT FIREFIGHTING HELMET

P/N : 14020940



EN 443 EN 166 EN 14458

Extreme temperature resistance up to 1000°C in a ten-second flash over flames,
 Long-term temperature resistance.
 High resistance to mechanical impacts,
 Visor resistant to high energy impacts,
 Full head protection (**Including neck and face**),
 Shock absorber.

Electrical insulation
 Capacity : E2

Neck protector : Aluminized Carbon Fabric
 Weight : 1220 ± 30 g

Optional accessoires;

UK eLED RFL 4AA Headlamp (ATEX certified)



Colour Options



CHIBA TOP RESCUE FIREFIGHTING GLOVES

P/N : 14040902



Back of hand : Double face knitted, silicon bonded fabric
 Palm : Double face silicon bonded fabric
 50% Nomex® + 50% Viscose FR
 Cuff : %50 Nomex® + %50 Viscose FR
 Moisture barrier : Eurotex®
 Inner lining : Knitted 100% Twaron®

Abrasion (3) : ●●●●●●●●●●
 Cut resistance (3) : ●●●●●●●●●●
 Tear resistance (3) : ●●●●●●●●●●
 Puncture resistance (3): ●●●●●●●●●●
 Burn behavior (4) : ●●●●●●●●●●
 Dexterity (4) : ●●●●●●●●●●

FYRPRO® FIREMAN EQUIPMENT

PENKERT BASIC GRIP 3.0 SHORT FIREFIGHTING GLOVES



August Penkert
Maschinenschutzelemente mit IECF
www.faltenbaig-hersteller.de

P/N : 14040908



EN 420:2003
+A1:2009

EN 659:2003
+A1:2008

PPE
Personal Protective
Equipment
Category III
REGULATION
(EU)2016/425



- Palm** : Heat-resistant, hydrophobic cow grain leather with additional palm reinforcement
- Back of hand** : With sewn-on knuckle protection
- Moisture barrier** : Porelle® membrane
- Inner lining** : Kevlar® lining material as cut protection and thermal insulation
- Cuffs** : Viscose knitted cuff (%90 Viscose FR, %10 Elasthan)

- | | |
|--------------------------------------|-----------------------------|
| Abrasion resistance (3) : ●●●●●●●● | Convective heat : PASS |
| Cut resistance (palm) (3) : ●●●●●●●● | Radiant heat : PASS |
| Puncture resistance (3) : ●●●●●●●● | Contact heat : PASS |
| Seam strength (4) : ●●●●●●●● | Chemical penetration : PASS |

SEIZ PREMIUM FIREFIGHTING GLOVES



P/N : 14040902



PPE
Personal Protective
Equipment
Category III
REGULATION
(EU)2016/425



- Palm** : Double faced Kevlar® with silicone carbon coating
- Back of hand** : Nomex® and SEIZ® heat absorber with knuckle protection
- Inner lining** : SEIZ® Senso Touch lining system
- Moisture barrier** : GORE-TEX CROSSTECH®
- Cuffs** : Nomex® + 3M Scotchlite™

- | |
|------------------------------------|
| Abrasion resistance (4) : ●●●●●●●● |
| Cut resistance (4) : ●●●●●●●● |
| Tear Strength (4) : ●●●●●●●● |
| Puncture resistance (3) : ●●●●●●●● |

FYRPRO® FIREMAN EQUIPMENT

ETCHE FIREFIGHTING BOOTS

P/N : 14030139



EN ISO 20345
S5 HRO SRC



EN 15090
Type 3F3AH13 / Class 2



Type F3A



MED



Excellent resistance to chemicals : fuels, oils, weak and diluted acids, solvents.
SA/BF nitrile rubber,
Antistatic,
Excellent resistance to heat flow, contact heat and fire,
Excellent resistance to abrasion and cuts,

Impact resistance: 200 J,
The penetration resistance: 1100 N with composite sole,
Heel shock absorption,
Sole slip resistance (SRC)

TUFFKING LEATHER FIREFIGHTING BOOTS

P/N : 14033237



TUFFKING



Type F2A



EN 15090:2012
H13 SRC CI AN



Height : 26 cm
Upper : 2,4 mm, waterproof full grain leather
Lining : Sympatex Membran,
Laces : Flame resistant Nomex®

Insole: 3,5 mm felt breathable with memory foam.
Vibram nitrile rubber 300° heat resistant
Heat resistant up to 250°C



Firefighting contains various kind of risks which effects human health. Specially designed equipment under (EU) 2016/425 Personal Protective Equipment should be used to remove those effects.

To reduce the possible risks;

- Proper training and practice in firefighting and emergency tactics and safety,
- Proper selection and use of safety equipment,
- Knowledge of design, performance and use limitations of EN standards.

FYRAL® series firefighting suits are manufactured to reduce the risks of firefighting according to the related standard EN 1486 "Protective clothing for fire fighters - Test methods and requirements for reflective clothing for specialised firefighting". For proper selection of the garments according to the requirements of different risk groups, alternative layer systems are designed.

FYRAL® firefighting suits are specially manufactured garments for risk groups in which they will be used.

Firefighting suits fall in Category III according to (EU) 2016/425 PPE directive, due to the complex design intended to protect against mortal danger or against dangers that may seriously and irreversibly harm the health

FYRAL® firefighting suits are used with hood, gloves, gaiters made of the same layer system according to EN 1486 since it should supply protection to whole body of the user.

Other equipment which can be used with FYRAL® garments;

EN 397/EN 443/EN 14052 Fireman helmets in hood;
EN 166 Visors,
EN ISO 20345/EN ISO 15090 Fireman boots under gaiters,

Thanks to pouch on back, respiratory device which are certified according to EN 137 Type II, back plate and harness are made of aramid or other flame retardant materials, can be used with this garment safely.

EN 1486	TEST / FEATURE	METHOD
6.1	General clothing design	EN ISO 13688
6.1	Limited flame spread	EN ISO 15025
6.2	Heat transfer (radiant)	EN ISO 6942
6.3	Heat transfer (flame)	EN 367
6.4	Contact heat	EN 702/EN ISO 12127
6.5	Heat resistance	EN ISO 17493
7.2	Tensile strength	EN ISO 13934-1 EN ISO 1421
7.5	Seam strength	EN ISO 13935-2
9	Marking	EN ISO 13688
10	Manufacturer information	EN ISO 13688



EN 1486

- Protective aluminized garments
- For firefighters
- Test methods and requirements for reflective clothing for specialised firefighting

FYRAL®

ALUMINIZED FIRE PROXIMITY SUITS

FYRAL® 9000 ALUMINIZED FIRE PROXIMITY SUIT

P/N : 13303900
 Outer Fabric : Aluminized glass fiber
 Heat Barrier : 100% Kermel® (4 layered)
 Inner lining : 65% Lenzing™ FR, 22% Teijinconex®, 12% PA,
 1% Belltron® (Antistatic fiber)
 Layer System : 6-layered



EN 1486



MED



EN ISO 13688



LENZING™ Teijinconex® KERMEL® Belltron®

FYRAL® 9300 ALUMINIZED FIRE PROXIMITY COVERALL

P/N : 13303930
 Outer Fabric : Aluminized glass fiber
 Heat Barrier : 100% Kermel® (4 layered)
 Inner lining : 65% Lenzing™ FR, 22% Teijinconex®, 12% PA,
 1% Belltron® (Antistatic fiber)
 Layer System : 6-layered



EN 1486



EN ISO 13688



LENZING™ KERMEL® Belltron®

FYRAL®

INDUSTRIAL ALUMINIZED SUITS AGAINST RADIANT HEAT AND MOLTEN METAL SPLASH

FYRAL® series industrial protective garments are produced according to EN standards and covered under (EU) 2016/425 Personal Protective Equipment Directive as Cat II. These garments protect the users' body from negative effects of heat, flame and welding splashes.

To reduce the possible risks;

- Proper selection and use of safety equipment,
- Knowledge of design, performance and use limitations of EN standards.

FYRAL® series industrial protective garments are produced with accessories according to the standard EN ISO 11612 "Protective clothing - Clothing to protect against heat and flame - Minimum performance requirements" and designed according to the requirements of customers.

In this standard, besides radiant and contact heat; molten metal splash protective garments performances are defined which protect against molten aluminium and iron splashes. These garments are designed to provide comfort and easy movement to workers during daily work. Along with daily work, user must move fast in special occasions and accidents. Within comfort, garments are designed to move fast.

Industries;

- Foundry
- Arc Furnace
- Iron and steel plants
- Furnace plants
- Dense radiant heat plants



EN ISO 11611

- Protective garments
- Used in welding applications



EN ISO 11612

- Protective garments
- Heat and flame protective garments
- Minimum requirements

SIZE CHART

SIZE	LENGTH	CHEST	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
In compliance with EN ISO 13688.

FYRAL®

INDUSTRIAL ALUMINIZED SUITS AGAINST RADIANT HEAT AND MOLTEN METAL SPLASH

FYRAL® 800V JACKET AND TROUSERS

P/N : 13375511
Outershell : Aluminized Viscose FR fabric
Layer System : Single-layered



EN ISO 11612

A1 B1 C3 D3
E3 F1

PPE
Personal Protective
Equipment
Category III
REGULATION
(EU)2016/425



FYRAL® 810V APRON

P/N : 13075010
Outershell : Aluminized Viscose FR fabric
Layer System : Single-layered



EN ISO 11612

A1 B1 C3 D3
E3 F1

PPE
Personal Protective
Equipment
Category III
REGULATION
(EU)2016/425



FYRAL® 820V HOOD

P/N : 13075013
Outershell : Aluminized Viscose FR fabric
Layer System : Single-layered

* Gold vaporised visor and helmet available inside.



EN ISO 11612

A1 B1 C3 D3
E3 F1

PPE
Personal Protective
Equipment
Category III
REGULATION
(EU)2016/425



FYRAL®

INDUSTRIAL ALUMINIZED SUITS AGAINST RADIANT HEAT AND MOLTEN METAL SPLASH

FYRAL® 830V BOOT COVERS

P/N : 13075012
 Outershell : Aluminized Viscose FR fabric
 Layer System : Single-layered



EN ISO 11612
 A1 B1 C3 D3
 E3 F1

PPE
 Personal Protective
 Equipment
Category III
 REGULATION
 (EU)2016/425



FYRAL® 840V SLEEVES

P/N : 13075011
 Outershell : Aluminized Viscose FR fabric
 Layer System : Single-layered



EN ISO 11612
 A1 B1 C3 D3
 E3 F1

PPE
 Personal Protective
 Equipment
Category III
 REGULATION
 (EU)2016/425



FYRAL® 850V OPEN BACK CAPE

P/N : 13075210
 Outershell : Aluminized Viscose FR fabric
 Layer System : Single-layered



EN ISO 11612
 A1 B1 C3 D3
 E3 F1

PPE
 Personal Protective
 Equipment
Category III
 REGULATION
 (EU)2016/425



FYRAL®

INDUSTRIAL ALUMINIZED SUITS AGAINST RADIANT HEAT AND MOLTEN METAL SPLASH

FYRAL® 300V JACKET AND TROUSERS

P/N : 13375512
Outershell : Aluminized Viscose FR fabric
Heat Barrier : 100% Aramid felt
Inner Liner : 50% Nomex®, 50% Viscose FR
Layer System : 3-layered



EN ISO 11612

A1 B1 C3 D3
E3 F2



•DUPONT•
Nomex.



FYRAL® 310V APRON

P/N : 13075020
Outershell : Aluminized Viscose FR fabric
Heat Barrier : 100% Aramid felt
Inner Liner : 50% Nomex®, 50% Viscose FR
Layer System : 3-layered



EN ISO 11612

A1 B1 C3 D3
E3 F2



•DUPONT•
Nomex.



FYRAL® 320V HOOD

P/N : 13075023
Outershell : Aluminized Viscose FR fabric
Heat Barrier : 100% Aramid felt
Inner Liner : 50% Nomex®, 50% Viscose FR
Layer System : 3-layered

* Gold vaporised visor and helmet available inside.



EN ISO 11612

A1 B1 C3 D3
E3 F2



•DUPONT•
Nomex.



FYRAL®

INDUSTRIAL ALUMINIZED SUITS AGAINST RADIANT HEAT AND MOLTEN METAL SPLASH

FYRAL® 330V BOOT COVERS

P/N : 13075023
 Outershell : Aluminized Viscose FR fabric
 Heat Barrier : 100% Aramid felt
 Inner Liner : 50% Nomex®, 50% Viscose FR
 Layer System : 3-layered



EN ISO 11612
 A1 B1 C3 D3
 E3 F2



•DUPONT•
Nomex.



FYRAL® 340V SLEEVES

P/N : 13075021
 Outershell : Aluminized Viscose FR fabric
 Heat Barrier : 100% Aramid felt
 Inner Liner : 50% Nomex®, 50% Viscose FR
 Layer System : 3-layered



EN ISO 11612
 A1 B1 C3 D3
 E3 F2



•DUPONT•
Nomex.



**FYRAL® 900 DF COMFORT (JACKET-TROUSERS)
 ALUMINIZED VISCOSE FR- ON FRONT
 MSG FABRIC ON BACK**

P/N : 13305111
 Front : Aluminized Viscose FR fabric
 Back : 54% Lenzing™ FR, 20% Wool, 20% PA,
 5% Para-Aramid, 1% Antistatic fiber
 Layer System : Single-layered



EN ISO 11612
 A1 B1 C1 D2
 E3 F1



EN ISO 11611
 Level 1



EN 1149-5



LENZING™ Twaron® Belltron®

FYRAL®

INDUSTRIAL ALUMINIZED SUITS AGAINST RADIANT HEAT AND MOLTEN METAL SPLASH

FYRAL® HEATPRO V4L AIR COOLING COVERALL

P/N	: 13305430
Outershell	: Aluminized Viscose FR fabric
Heat Barrier	: 100% Aramid felt
Inner Liner	: 88% Cotton FR, 12% PA
Layer System	: 4-layered



EN ISO 11612

A1 B1 C3 D3
E3 F1



ELECTPRO®

ELECTRIC ARC FLASH PROTECTIVE CLOTHING

Electric arc explosion is an energy discharge as heat or light between unconnected conductors via air. As a result, electric arc applications contain many risks that effect human health in various sides. To reduce or eliminate these effects, special designed protective garments in compliance with (EU) 2016/425 Personal Protective Equipment Regulation should be used.

ELECTPRO® electric arc protective garments are Category III under (EU) 2016/425 Personal Protective Equipment Regulation complying various EN standards. These garments protect human body against dangerous effects of electric arc as heat, pressure, melted particules etc.

To reduce the possible risks;

- Knowledge of design, performance and using limitations of EN standards.
- Proper selection and use of safety equipment
- Complementary accessories selection to protect whole body.

Electric arc protective garments are certified according to IEC/EN 61482 standard. According to EN 61482-1-2 standard, Class 1 (4 kA) and Class 2 (7 kA) are the protection levels. Class 2 is the highest level against electric arc risk according to the standard. Besides ATPV (cal/cm²) value should be calculated according to standard EN 61482-1-1. ATPV value is required in the applications in high-voltage lines.

EN ISO 11612 standard is certification standard like IEC/EN 61482-2 standard and includes mutual performance tests. On the other hand, arc protection class should be determined according to the test standard EN 61482-1-2.

EN 1149-3/5 standard performance is required to understand antistatic behaviour of outer fabric which is used to reduce the explosion risks caused by decompression of explosive gases in the environment.

ELECTPRO® electric arc protective garments protect lower and upper torso including neck, arms excluding hands and legs excluding foot according to standard requirements. Rest of the body should be protected due to the risks of the industrial and electric arc risks.

Other equipment which can be used with ELECTPRO® garments;

- Flame retardant knitted underwear in compliance with EN ISO 11612 or IEC 61482,
- Electric arc protective helmet in compliance with EN 397/EN 50365/ANSI Z89,
- Electric arc flash protective hood/visor in compliance with GS ET 29/EN 170/ANSI Z87.1/ASTM 2178
- Electric arc protective gloves in compliance with ASTM 2675,
- Electric arc protective boots in compliance with EN 50321/ASTM F1117.



EN ISO 11612

- Protective garments
- Heat and flame protective garments
- Minimum requirements



EN 1149-3/5

- Protection from static electricity (Electrostatic properties)



GS ET 29

- Arc flash protective hood



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

- Work with high voltage
- ATPV determinaton
- Box test
- Protective garments



EN 17353:2020 Type AB3 Type B3 Type B2

SIZE CHART

SIZE	COVERALL				SHIRT			
	CHEST (cm)	SLEEVE (cm)	INSEAM (cm)	LENGTH (cm)	CHEST (cm)	SLEEVE (cm)	SHOULDER (cm)	LENGTH (cm)
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	JACKET				COAT				TROUSERS		
	CHEST (cm)	SLEEVE (cm)	SHOULDER (cm)	LENGTH (cm)	CHEST (cm)	SLEEVE (cm)	SHOULDER (cm)	LENGTH (cm)	WAIST (cm)	INSEAM (cm)	LENGTH (cm)
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 \pm % 2
In compliance with EN ISO 13688

ELECTPRO® MATRIX

MODEL	IEC 61482-1-2		EN 1149 - 3/5	ATPV (cal/cm ²)
	Level 1	Level 2		
ELECTPRO® SHIRT (ARC PROTECTOR - S1L ALX 145)	✓		✓	Fabric 7,7 CAL/CM ²
ELECTPRO® JACKET - TROUSERS (ARC PROTECTOR - G1L ALX 250)	✓		✓	Fabric 11,8 CAL/CM ²
ELECTPRO® JACKET - TROUSERS (ARC PROTECTOR G2L ARC A)		✓	✓	Layer sys. 21,9 CAL/CM ²
ELECTPRO® JACKET - BIB TROUSERS (ARC PROTECTOR - G2L ULTRASOFT 900)		✓	✓	63 CAL/CM ²
ELECTPRO® HOOD (ARC PROTECTOR - G2L ULTRASOFT 900 HOOD)		GS-ET-29	✓	63 CAL/CM ²
FYR-KNIT® KNITTED T-SHIRT (ARC PROTECTOR - UW 50)			✓	11 CAL/CM ²
ELECTPRO® LINEMAN 31 B2 + 31 AB 3			✓	31 CAL/CM ²
ELECTPRO® MULTI COAT 40 B3			✓	40 CAL/CM ²

ELECTPRO®

ELECTRIC ARC FLASH PROTECTIVE CLOTHING

ELECTPRO® LINEMAN 31 AB3/B2



P/N : 13513124
Outershell : 45% Aramid, 29% Viscose FR
 25% PES, 1% Antistatic
Inner Liner : 64% Viscose FR, 35% Aramid, 1% Antistatic
Layer System : Double-layered



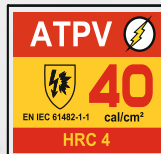
EN ISO 11612	IEC 61482-1-2	EN 1149-3/5	EN ISO 13688	EN 17353:2020 Type AB3	EN 17353:2020 Type B2
A1 A2 B1 C1 F2	Class 2				

ELIM: 28 cal/cm²



LENZING™ **Belltron**™ Teijinconex™

ELECTPRO® MULTI COAT 40 B3



P/N : 13513125
Outershell : 65% Viscose FR, 22% Aramid
 12% PA, 1% Antistatic fiber
Moisture Barrier : 90% PES FR +10% PES Breathable membrane
Heat Barrier : 100% Non-woven aramid
Inner Liner : 50% Aramid, 50% Viscose FR
Layer System : 4-layered



EN ISO 11612	IEC 61482-1-2	EN 1149-3/5	EN ISO 13688	EN 17353:2020 Type B3
A1 B2 C2 F3	Class 2			

ELIM: 33 cal/cm²



LENZING™ Teijinconex™ **KERMEL**™ **Belltron**™

ELECTPRO®

ELECTRIC ARC FLASH PROTECTIVE CLOTHING

ELECTPRO® COAT AND TROUSERS (G1L ALX 250)

P/N : 13856511
Outershell : 65% Lenzing™ FR, 22% Teijinconex®, 12% PA
 1% Antistatic fiber
Layer System : Single-layered



IEC 61482-2
Level 1 (4kA)



EN ISO 11612
A1 B1 C1 F1



EN 1149-3/5



LENZING™ Teijinconex™ Belltron®

ATPV (Fabric): 11,80 cal/cm² HRC: 2

ELIM: 7,6 cal/cm²

ELECTPRO® JACKET AND TROUSERS (G2L ARC/A)

P/N : 13513123
Outershell : 65% Lenzing™ FR, 22% Teijinconex®, 12% PA
 1% Antistatic fiber
Inner Liner : 64% Lenzing™ FR, 30% Teijinconex®, 5% Twaron®,
 1% Antistatic fiber
Layer System : Double-layered



IEC 61482-2
Level 2 (7kA)



EN ISO 11612
A1 A2 B1 C1 F1



EN 1149-3/5



LENZING™ Teijinconex™ Twaron™ Belltron®

ATPV: 21,9 cal/cm² HRC: 2

ELIM: 20 cal/cm²

ELECTPRO® SHIRT (S1L ALX 145)

P/N : 13816910
Outershell : 64% Lenzing™ FR, 30% Teijinconex®, 5% Twaron®,
 1% Antistatic fiber
Layer System : Single-layered



IEC 61482-2
Level 1 (4kA)



LENZING™ Teijinconex™ Twaron™

ATPV (Fabric): 7,7 cal/cm² HRC: 1

ELIM: 4,4 cal/cm²

ELECTPRO®

ELECTRIC ARC FLASH PROTECTIVE CLOTHING

ELECTPRO® G2L ULTRASOFT 900 JACKET - BIB TROUSERS

P/N : 13513122
 Outershell : 88% Cotton FR, 12% PA
 Inner Liner : 88% Cotton FR, 12% PA
 Layer System : Double-layered



IEC 61482-2
Level 2 (7kA)



EN ISO 11612
A2 B2 C2

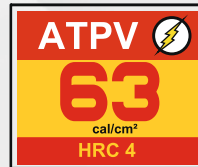


EN 1149-3/5

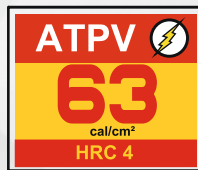


Westex
UltraSoft®

Westex
Indigo®



ATPV: 63 cal/cm² HRC: 4



ATPV value of the visor is
75 cal/cm²



ELECTPRO® G2L ULTRASOFT 900 HOOD

P/N : 13513022
 Outershell : 88% Cotton FR, 12% PA
 Inner Liner : 88% Cotton FR, 12% PA
 Layer System : Double-layered



EN 166



GS-ET-29
Level 2

EN 170



Level 2 (7kA)

A2 B2 C2

Westex
UltraSoft®

Westex
Indigo®

ELECTPRO®

ELECTRIC ARC FLASH PROTECTIVE CLOTHING

FYR-KNIT® POLO/CREW NECK T-SHIRT (FYRTEX® UW 50)

P/N : 18518811
Outershell : 50% Kermel®, 49% Lenzing™ FR,
 1% Antistatic fiber
Layer System : Single-layered


 IEC 61482-2
 Level 2 (4kA)
LENZING®  **KERMEL**
 Level 2
 ATPV: 10,92
 cal/cm²

PPE
 Personal Protective
 Equipment
Category II
 REGULATION
 (EU)2016/425



ELECTRIC ARC FLASH PROTECTIVE GLOVES

EUREKA 6-30 CAL/CM² ARC FLASH GLOVES (13-4 HEAT FR)



P/N : 07068815


 EN 388


NFPA 70E
 Level 2


 EN 407

ATPV;
 5,8 cal/cm² (back of hand)
 30 cal/cm² (palm)

PPE
 Personal Protective
 Equipment
Category II
 REGULATION
 (EU)2016/425



ABRASION (3) : ●●●●●●
 TEAR (4) : ●●●●●●
 PUNCTURE (3) : ●●●●●●
 SHARP CUT RESISTANCE (X)
 SHARP CUT RESISTANCE (E)

FLAMMABILITY (4) : ●●●●●●
 CONTACT HEAT (1) : ●●●●●●
 CONVECTIVE HEAT (3) : ●●●●●●
 RADIANT HEAT (2) : ●●●●●●
 SMALL SPLASHES OF
 MOLTEN METAL (4) : ●●●●●●

ANSI CUT LEVEL : A5 (E: > 22 N)
 ARC STANDARD FOR THE : ASTM F2675
 GLOVES

LARGE QUANTITIES OF MOLTEN METAL (X)

Contains small amount of zinc organic accelerators.
 Waterproof and oil repellent




EUREKA 16 -40 CAL/CM² ARC FLASH GLOVES (13-4 HEAT FR-AF)



P/N :

NFPA 70E
 Level 2


EN 61482
 Level 2

ATPV;
 16 cal/cm² (green area)
 30 cal/cm² (printed area)
 40 cal/cm² (black coating area)

PPE
 Personal Protective
 Equipment
Category II
 REGULATION
 (EU)2016/425



EN 388

EN 407

ABRASION (3) : ●●●●●●
 TEAR (4) : ●●●●●●
 PUNCTURE (3) : ●●●●●●
 SHARP CUT RESISTANCE (X)
 SHARP CUT RESISTANCE (E)

FLAMMABILITY (4) : ●●●●●●
 CONTACT HEAT (1) : ●●●●●●
 CONVECTIVE HEAT (3) : ●●●●●●
 RADIANT HEAT (2) : ●●●●●●
 SMALL SPLASHES OF
 MOLTEN METAL (4) : ●●●●●●

ANSI CUT LEVEL : A5 (E: > 22 N)
 ARC STANDARD FOR THE : ASTM F2675
 GLOVES

LARGE QUANTITIES OF MOLTEN METAL (X)



ELECTPRO®

ELECTRIC ARC FLASH PROTECTIVE CLOTHING

EUREKA 50 CAL/CM² ARC FLASH GLOVES (13-4 HEAT AF 50)



P/N : 07068818



ATPV;
59 cal/cm² (green area)
41 cal/cm² (printed area)



EN 388



EN 61482

Level 2



EN 407

NFPA 70E

Level 4

ABRASION (3) : ●●●●●●
TEAR (4) : ●●●●●●
PUNCTURE (3) : ●●●●●●
SHARP CUT RESISTANCE (X)
SHARP CUT RESISTANCE (E)

ANSI CUT LEVEL : A5 (E: > 22 N)
ARC STANDARD FOR THE : ASTM F2675
GLOVES

FLAMMABILITY (4) : ●●●●●●
CONTACT HEAT (1) : ●●●●●●
CONVECTIVE HEAT (3) : ●●●●●●
RADIANT HEAT (2) : ●●●●●●
SMALL SPLASHES OF
MOLTEN METAL (4) : ●●●●●●

LARGE QUANTITIES OF MOLTEN METAL (X)



PAULSON 14 CAL/CM² ARC FLASH VISOR (AMP1-E14-HTS-PCT-EC)

P/N : 07020910



EN 166



GS-ET-29

Class 2



NFPA 70E

HRC 2



Material : Polycarbonate
Weight : 317,5 g (11,20 oz)
Visor : 25,4 x 50,8 x 0,15 cm (10" x 20" x 0.06")
Standard : NFPA 70E, ASTM F2178; ANSI Z87.1, GS-ET-29, EN 166



ELECTPRO®

ELECTRIC ARC FLASH PROTECTIVE CLOTHING

PAULSON 25 CAL/CM² ARC FLASH VISOR (AMP1-E25-HT-PCT-EC)

P/N : 07020920



EN 166



NFPA 70E
HRC2



GS-ET-29
Class 2



PAULSON
INTERNATIONAL



Material : Polycarbonate
Weight : 317,5 g (11,20 oz)
Visor : 25,4 x 50,8 x 0,15 cm (10" x 20" x 0.06")
Standard : NFPA 70E, ASTM F2178; ANSI Z87.1, EN 166, GS-ET-29

RESPIREX 40 CAL/CM² DIELECTRIC ARC FLASH BOOTS



P/N : 14030839

EN ISO 20345
ECI FOHRSRC

EN 50321-1
Class 2 AC



RESPIREX™



ASTM F2621 : 40 cal/cm²
ASTM F1117 : 20kV
ASTM 2413 EH : 18kV
ASTM 2412-18A : 35kV

Step voltage protection up to 35kV*
Arc flash protection meets the requirements of ASTM F2621-2019 at 40Cal/cm²
High Voltage Test Each boot: 20kV AC- Leakage current <18mA over the three minutes test cycle

- 200 Joule Epoxy coated steel toe cap to EN ISO 20345,
- Adjustable height,
- Non-wicking knitted nylon lining,
- Blue vulcanised rubber sole for maximum grip.
- Cleated outsole for maximum grip in wet and oily conditions (SRC),
- Fuel and oil resistant,
- Greater cut resistance than conventional soles,
- Resistance to hot contact 60 seconds at 300 °C.



Live Working
CLASS 2
EN 50321-1
17 kV



40
Cal/cm²
ARC FLASH TESTED

FYRTEX® HEAT AND FLAME RESISTANT INDUSTRIAL WORKWEAR

Industrial heat and flame applications contain various kinds of risks which affect human health. Specially designed (EU) 2016/425 Personal Protective Equipment Regulation should be used to remove those effects.

FYRTEX® industrial heat and flame protective garments are Category II under (EU) 2016/425 Personal Protective Equipment Regulation complying various EN standards.

These garments protect human body against heat and flame effects, welding application risks.

To reduce the possible risks;

Proper selection and use of safety equipment,

Knowledge of design, performance and using limitations of EN standards.

TEST STANDARD	MARKING	CLASSIFICATION
EN ISO 15025 / Limited Flame Spread	A1	Procedure A is used
	A2	Procedure B is used .
EN ISO 9151 / Heat Transfer-Convective	B1	$4.0 \text{ s} < HTI_{24} < 10.0 \text{ s}$
	B2	$10.0 \text{ s} < HTI_{24} < 20.0 \text{ s}$
	B3	$20.0 \text{ s} < HTI_{24}$
EN ISO 6942 / Heat Transfer-Radiant	C1	$7.0 \text{ s} < RHTI_{24} < 20.0 \text{ s}$
	C2	$20.0 \text{ s} < RHTI_{24} < 50.0 \text{ s}$
	C3	$50.0 \text{ s} < RHTI_{24} < 95.0 \text{ s}$
	C4	$95.0 \text{ s} < RHTI_{24}$
EN ISO 9185 / Molten Aluminium Splash	D1	$100 \text{ g} < D1 < 200 \text{ g}$
	D2	$200 \text{ g} < D2 < 350 \text{ g}$
	D3	$350 \text{ g} < D3$
EN ISO 9185 / Molten Iron Splash	E1	$60 \text{ g} < E1 < 120 \text{ g}$
	E2	$120 \text{ g} < E2 < 200 \text{ g}$
	E3	$200 \text{ g} < E3$
EN ISO 12127 / Contact Heat	F1	$5.0 \text{ s} < T \text{ (s) threshold time} < 10.0 \text{ s}$
	F2	$10.0 \text{ s} < T \text{ (s) threshold time} < 15.0 \text{ s}$
	F3	$15.0 \text{ s} < T \text{ (s) threshold time}$



EN ISO 11612

- Protective garments
- Heat and flame protective garments
- Minimum requirements



EN ISO 11611

- Protective garments
- Used in welding applications



EN 1149-3/5

- Protection from static electricity



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

- Work with voltage
- ATPV determination
- Box test
- Protective garments



FYRTEX® WORKWEAR MATRIX

MODEL	EN ISO 11612	EN ISO 11611		EN 1149	IEC 61482-1-2		PAGE
		Level 1	Level 2		Level 1	Level 2	
FYRTEX® MULTI GARMENTS JACKET-TROUSERS-COVERALL	✓	✓		✓	✓		4
FYRTEX® UW50 T-SHIRT	✓			✓	✓		3
FYRTEX® WORKER GARMENTS JACKET-TROUSERS-COVERALL	✓	✓		✓			5
FYRTEX® PETCHEM GARMENTS JACKET-TROUSERS-COVERALL	✓			✓			7
METAL SPLASHGUARD 375 JACKET-TROUSERS-COVERALL	✓		✓	✓			6
FYRTEX® UW 50 KNITTED T-SHIRT				✓	✓		7
FYRTEX® WELDSPLASH 400 JACKET-TROUSERS-COVERALL	✓		✓	✓			7

FYRTEX® HEAT AND FLAME RESISTANT INDUSTRIAL WORKWEAR

FYRTEX® WORKER JACKET-TROUSERS-COVERALL

(G1L / C1L CVC 275)

P/N : 13805411 - 13803410
Outershell : 75% Cotton FR, 24% Polyester,
 1% Antistatic fiber

Layer System : Single-layered



EN ISO 11612
A1 B1 C1 E2 F1

EN ISO 11611
Level 1

EN 1149-3/5

EN ISO 13688

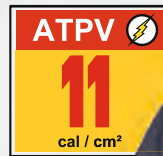


FYRTEX® MULTI JACKET-TROUSERS-COVERALL

(G1L / C1L PRO 250)

P/N : 13816512 - 13816412
Outershell : 65% Lenzing™ FR,
 22% Aramid,
 12% PA, 1% Antistatic fiber

Layer System : Single-layered



EN ISO 11612
A1 B1 C1 E1 F1

EN ISO 11611
Level 1

EN 1149-3/5

EN ISO 13688



LENZING™ Teijinconex® Belltron®

ELIM: 7,6 cal/cm²



FYRTEX® PETCHEM JACKET-TROUSERS-COVERALL

(G1L / C1L)

P/N : 13804511 - 13804510
Outershell : 93% Meta-Aramid,
 5% Para-Aramid,
 2% Antistatic fiber

Layer System : Single-layered



EN ISO 11612
A1 B1 C1 F1

EN 1149-3/5



FYRTEX®

HEAT AND FLAME RESISTANT INDUSTRIAL WORKWEAR

FYRTEX® SHIRT

(S1L PRO 145)

P/N : 13816912
Outershell : 64% Lenzing™ FR, 30% Teijinconex®,
5% Twaron®, 1% Antistatic fiber
Layer System : Single-layered



EN ISO 11612
A1 B1 C1 F1



EN 1149-3/5



EN ISO 13688



LENZING™ Teijinconex™ Twaron™

FYR-KNIT® UNDERWEAR

(UWS 50)

P/N : 18518812
Outershell : 50% Kermel®, 49% Lenzing™ FR,
1% Antistatic fiber
Layer System : Single-layered



EN ISO 11612
A1 B1 C1 F1



EN 1149-3/5



EN ISO 13688



KERMEL™ LENZING™

FYRTEX®

**WELDING SUITS & MOLTEN METAL SPLASH
PROTECTIVE CLOTHING**

**FYRTEX® WELDSPLASH 400 WELDING SUIT
JACKET-TROUSERS-COVERAL**

(G1L / C1L)

P/N : 13816513 - 13816514
: 45% Cotton, 36% Modacrylic , 10% Lyocell,
8% Polyamide FR, 1% Antistatic

Layer System : Single-layered



EN ISO 11612
A1 A2 B1 C1 D2
E3 F1

EN ISO 11611
Level 2

EN 1149-3/5

EN ISO 13688



FYRTEX® WELDSPLASH 400 HOOD

P/N : 13010023
: 45% Cotton, 36% Modacrylic , 10% Lyocell,
8% Polyamide FR, 1% Antistatic

Layer System : Single-layered



EN ISO 11612
A1 A2 B1 C1 D2
E3 F1

EN ISO 11611
Level 2

EN 1149-3/5

EN ISO 13688



FYRTEX® WELDSPLASH 400 NECK PROTECTOR

P/N : 13010024
: 45% Cotton, 36% Modacrylic , 10% Lyocell,
8% Polyamide FR, 1% Antistatic

Layer System : Single-layered



EN ISO 11612
A1 A2 B1 C1 D2
E3 F1

EN ISO 11611
Level 2

EN 1149-3/5

EN ISO 13688



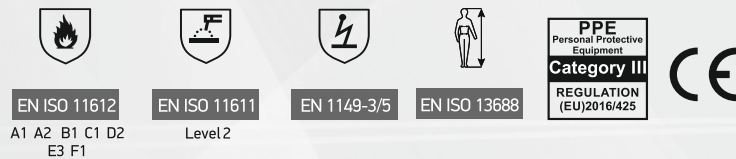
FYRTEX®

WELDING SUITS & MOLTEN METAL SPLASH PROTECTIVE CLOTHING

FYRTEX® WELDSPLASH 400 SLEEVES

P/N : 13010025
: 45% Cotton, 36% Modacrylic , 10% Lyocell,
8% Polyamide FR, 1% Antistatic

Layer System : Single-layered



FYRTEX® WELDSPLASH 400 PROTECTIVE APRON

P/N : 13010026
: 45% Cotton, 36% Modacrylic , 10% Lyocell,
8% Polyamide FR, 1% Antistatic

Layer System : Single-layered



FYRTEX® WELDSPLASH 400 BOOT COVERS

P/N : 13010027
: 45% Cotton, 36% Modacrylic , 10% Lyocell,
8% Polyamide FR, 1% Antistatic

Layer System : Single-layered



FYRTEX®

**WELDING SUITS & MOLTEN METAL SPLASH
PROTECTIVE CLOTHING**

**MSG 375 METAL SPLASHGUARD
JACKET - TROUSERS**

P/N : 13810511 - 13810410
Outershell : 54% Lenzing™ FR, 20% Wool, 20% PA,
 5% Para-Aramid, 1% Antistatic fiber
Layer System : Single-layered



EN ISO 11612
 A1 B1 C2 D3
 E3 F1

EN ISO 11611
 Level 2

EN 1149 -3/5

EN ISO 13688

LENZING™ Twaron® Belltron®



MSG 375 METAL SPLASHGUARD HOOD

P/N : 13010013
Outershell : 54% Lenzing™ FR, 20% Wool, 20% PA,
 5% Para-aramid, %1 Antistatic fiber
Layer System : Single-layered



EN ISO 11612
 A1 B1 C2 D3
 E3 F1

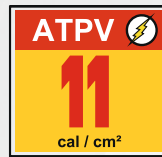
EN ISO 11611
 Level 2

EN 1149-3/5

EN ISO 13688

Teijinconex™ Twaron® Belltron®

ELIM:10 cal/cm²



MSG 375 METAL SPLASHGUARD NECK PROTECTOR

P/N : 13010014
Outershell : 54% Lenzing™ FR, 20% Wool, 20% PA,
 5% Para-aramid, 1% Antistatic fiber
Layer System : Single-layered



EN ISO 11612
 A1 B1 C2
 D3 E3 F1

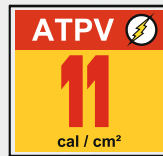
EN ISO 11611
 Level 2

EN 1149-3/5

EN ISO 13688

Teijinconex™ Twaron® Belltron®

ELIM:10 cal/cm²



FYRTEX®

WELDING SUITS & MOLTEN METAL SPLASH PROTECTIVE CLOTHING

MSG 375 METAL SPLASHGUARD SLEEVES

P/N : 13010011
 Outershell : 54% Lenzing™ FR, 20% Wool, 20% PA, 5% Para-aramid, 1% Antistatic fiber
 Layer System : Single-layered



EN ISO 11612
 A1 B1 C2 D3
 E3 F1



EN ISO 11611
 Level 2

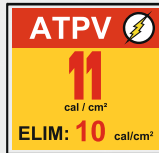


EN 1149-3/5



EN ISO 13688

PPE
 Personal Protective
 Equipment
Category III
 REGULATION
 (EU)2016/425



Teijinconex Twaron Belltron

MSG 375 METAL SPLASHGUARD BOOT COVERS

P/N : 13010012
 Outershell : 54% Lenzing™ FR, 20% Wool, 20% PA, 5% Para-aramid, 1% Antistatic fiber
 Layer System : Single-layered



EN ISO 11612
 A1 B1 C2 D3
 E3 F1



EN ISO 11611
 Level 2

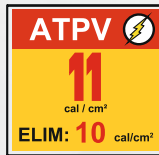


EN 1149-3/5



EN ISO 13688

PPE
 Personal Protective
 Equipment
Category III
 REGULATION
 (EU)2016/425



Teijinconex Twaron Belltron

MSG 375 METAL SPLASHGUARD PROTECTIVE APRON

P/N : 13010010
 Outershell : 54% Lenzing™ FR, 20% Wool, 20% PA, 5% Para-aramid, 1% Antistatic fiber
 Layer System : Single-layered



EN ISO 11612
 A1 B1 C2 D3
 E3 F1



EN ISO 11611
 Level 2

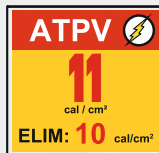


EN 1149-3/5



EN ISO 13688

PPE
 Personal Protective
 Equipment
Category III
 REGULATION
 (EU)2016/425



Teijinconex Twaron Belltron

FYRTEX®

HEAT AND FLAME PROTECTIVE UNDERWEAR

FYRHOOD® 50 ANTIFLASH BALACLAVA

- P/N : 18018650
Outershell : 50% Lenzing™ FR, 49% Kermel®,
 1% Antistatic fiber
Layer System : Double-layered
 • One size fits all



EN 13911



EN 1149-3/5



EN ISO 13688



Wide model



Regular model



FYRTEX® G-DWA / C-DWA DETACHABLE INNER LINER FOR WORKWEAR

- P/N : 13256133 - 13256233
Outershell : 50% Aramid, 50% Viscose FR
Inner Liner : 50% Aramid, 50% Viscose FR
Heat Barrier : 100% Aramid felt
Layer System : Triple-layered sandwich



EN ISO 11612



EN 1149-3/5





SIZE CHART

SIZE	COVERALL				SHIRT			
	CHEST (cm)	SLEEVE (cm)	INSEAM (cm)	LENGTH (cm)	CHEST (cm)	SLEEVE (cm)	SHOULDER (cm)	LENGTH (cm)
S 46/48	54	66	77	157	56	62	16	78
M 50/52	58	62	79,5	161	58	63	17	79
L 54/56	62	64	82	165	60	64	18	80
XL 58/60	66	66	84,5	160	62	65	19	81
XXL 62/64	70	68	87	173	64	66	20	82

SIZE	JACKET				COAT				TROUSERS		
	CHEST (cm)	SLEEVE (cm)	SHOULDER (cm)	LENGTH (cm)	CHEST (cm)	SLEEVE (cm)	SHOULDER (cm)	LENGTH (cm)	WAIST (cm)	INSEAM (cm)	LENGTH (cm)
S 46/48	56	62	16	78	52	50	16	69	42	77	103
M 50/52	58	63	17	79	56	60	17	71	46	78,5	106
L 54/56	60	64	18	80	60	61	18	73	50	80	109
XL 58/60	62	65	19	81	64	62	19	75	54	81,5	112
XXL 62/64	64	66	20	82	68	63	20	77	58	83	115

TOLERANCE %2
In compliance with EN ISO 13688.

Valid for FYRTEX®



ISTEC®

SHOWERS & EYEWASHES

EMERGENCY SAFETY SHOWERS



EYE / FACE WASHES

ООО «ТИСИСТЕМ» ИЖИЧУИИДИ ИЪНСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ti-sistemc.pf

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REQUIREMENTS OF ANSI/ISEA Z358.1 STANDARD

EYE/FACE WASHES

✓ The controlled, low-speed flow which washes eye and face completely, should not harm the user.

✓ Spray nozzles must be protected by dust covers against contaminants. Dust covers must be opened automatically by the water flow.

✓ The water flow should be high enough to keep user's eyes open during rinsing.

✓ The eye/face wash should deliver at least 11.4 l/min, and eye wash should deliver at least 1.5 l/min for 15 minutes. The water temperature should be tepid, between 16-38 °C.



✓ The water pattern should be located at a height of between 83.8 cm and 134.6 cm from the ground and 15.3 cm away from the nearest obstacle or wall.

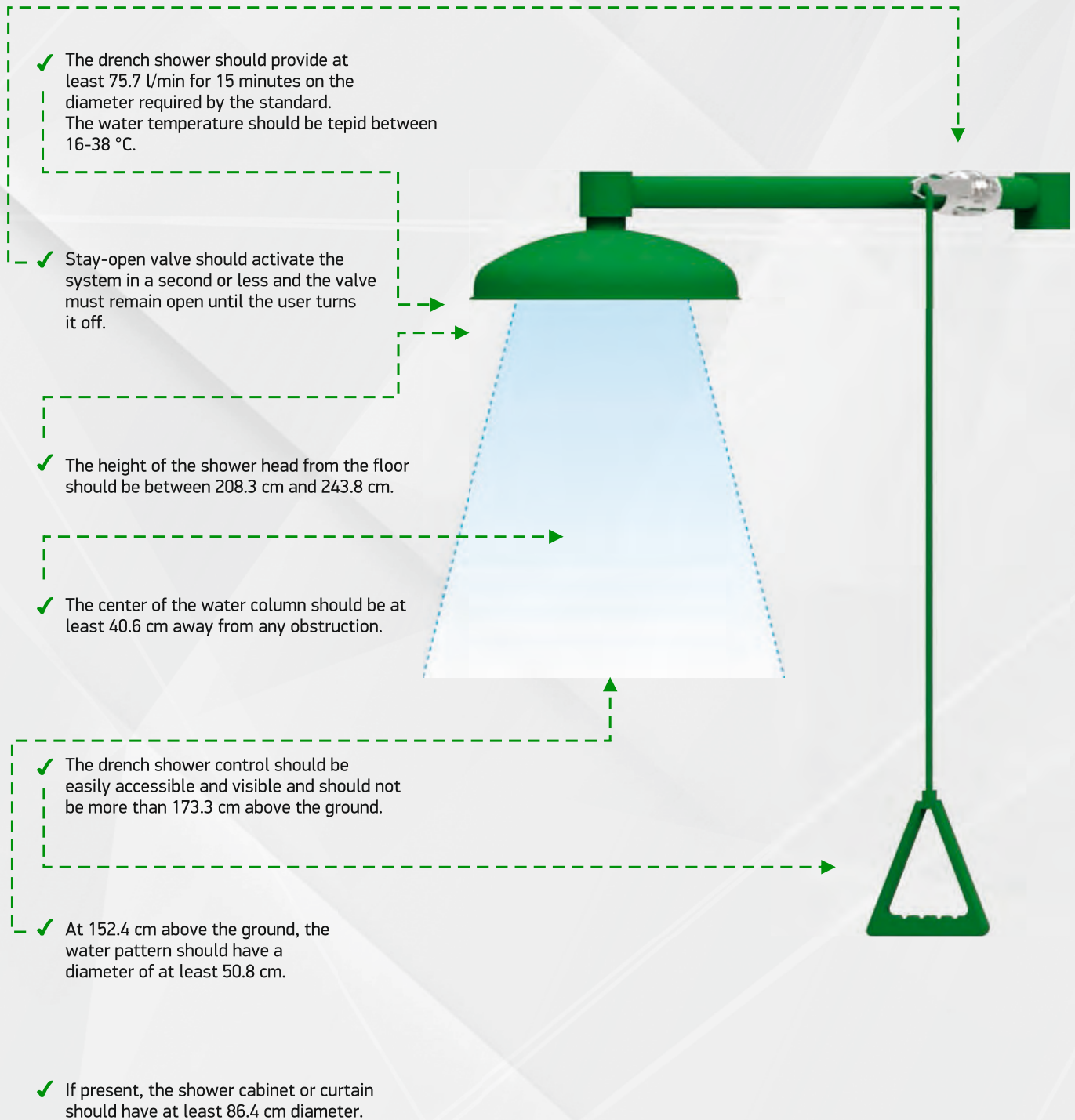
✓ The control of the eye/face wash should be easy to recognize and easy to find by the user.

✓ Stay-open valve should activate the system in a second or less and the valve must remain open until the user turns it off.

✓ The eye/face wash should wash both eyes at the same time.

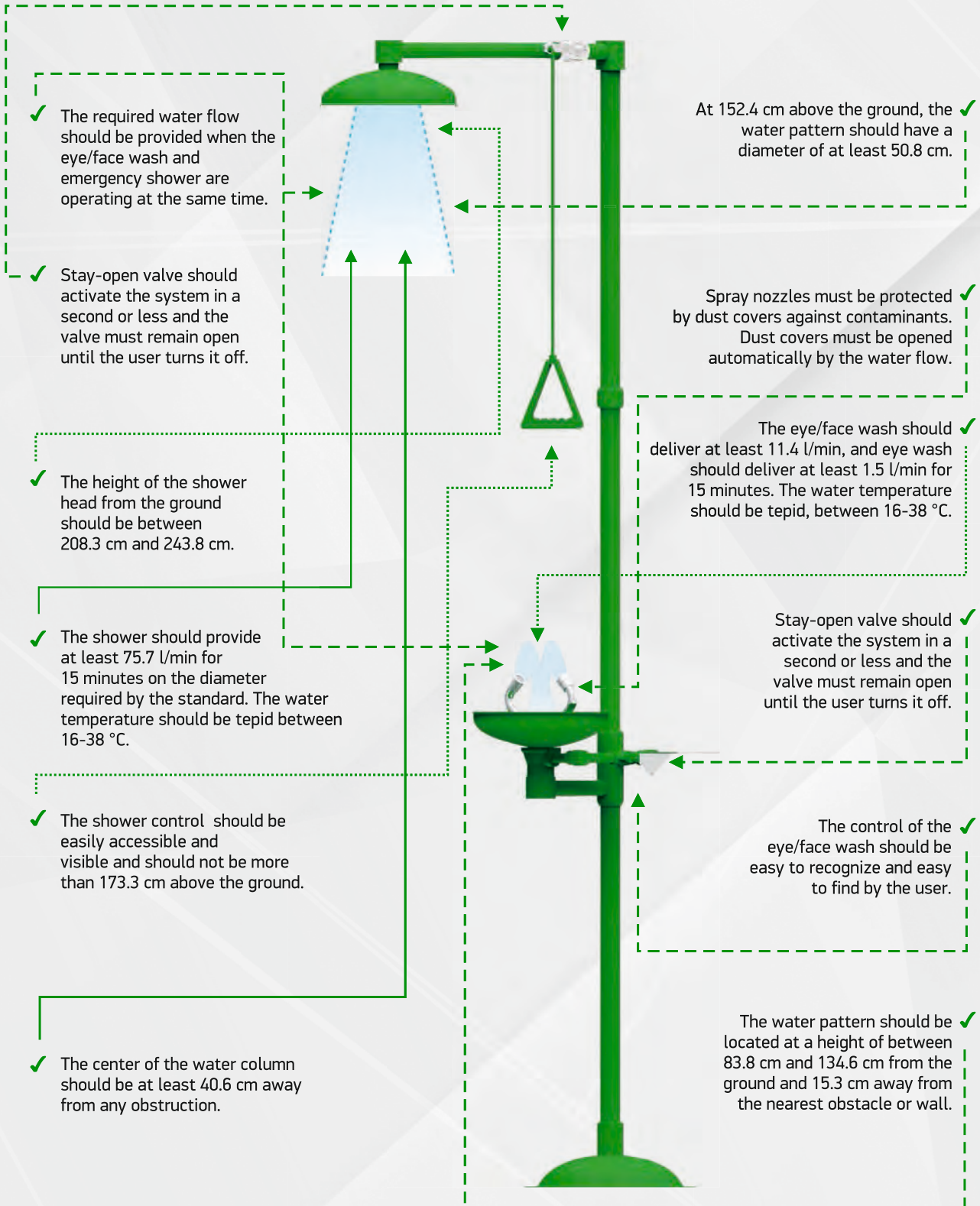
REQUIREMENTS OF ANSI/ISEA Z358.1 STANDARD

DRENCH SHOWERS



REQUIREMENTS OF ANSI/ISEA Z358.1 STANDARD

COMBINED EMERGENCY SAFETY SHOWERS AND EYE/FACE WASHES



ISTEC® TYPE EW EYE/FACE WASHES

ISTEC® TYPE EW Eye/Face Washes are certified according to;

- TS EN 15154-2
- ATEX
- GOST
- EAC
- ANSI / ISEA Z358.1 standards.

OPTIONAL ACCESSORIES

Audible and Visual Alarm, Flow Switch, Lighting, Thermomixing Valve, Freeze Protection Valve, Scald Protection Valve, Pressure Regulator can be selected as Ex-Proof or Non Ex-Proof.

GENERAL FEATURES

- The eye/face wash delivers water flow at least 11.4 l for 15 minutes.
- Wall, countertop and floor mounting options,
- Galvanized Steel / Stainless Steel material options,
- Galvanized Steel 304L/316L steel options in pipes,
- Galvanized Steel, 304L/316L steel and ABS material options in the bowl
- Push Handle and Foot Treadle activation systems,
- Ex-proof / Non-exproof options,



EN 15154-2



Pipes								
P/N	Material	Water Inlet	Body	Water Outlet	Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15011000	Stainless Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	5 kg
15011500	Galvanized Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	4,6 kg
15011100	Stainless Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	4,5 kg
15011600	Galvanized Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	4,25 kg
15011200	Stainless Steel	1/2"	1 ¼"	1 ¼"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	7,5 kg
15011700	Galvanized Steel	1/2"	1 ¼"	1 ¼"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	7 kg
15012000	Stainless Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	5 kg
15012500	Galvanized Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	4,5 kg
15012020	Stainless Steel	1/2"	1"	-	Push Handle	-	32X32X23 cm	3,05 kg
15012525	Galvanized Steel	1/2"	1"	-	Push Handle	-	32X32X23 cm	3 kg
15012335	Stainless Steel	1/2"	1/2"	-	Horizontal Moving Rotary	-	32X32X23 cm	3 kg
15012345	Stainless Steel	1/2"	1/2"	-	Vertical Moving Rotary	-	32X32X23 cm	3 kg
15013000	Stainless Steel	1/2"	1 ¼"	1"	Push Handle	300 mm	35x83x21 cm	10 kg
15013500	Galvanized Steel	1/2"	1 ¼"	1"	Push Handle	300 mm	35x83x21 cm	9 kg
15014000	Stainless Steel	1/2"	1 ¼"	1"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	10,5 kg
15014500	Galvanized Steel	1/2"	1 ¼"	1"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	10 kg
15018000	Stainless Steel	1/2"	-	1"	-	-	65x95x25 cm	16 kg
15018500	Galvanized Steel	1/2"	-	1"	-	-	65x95x25 cm	15 kg

ISTEC® TYPE EW

EYE / FACE WASHES



15011000



15011500



15011100



15011600

Pipes

P/N	Material	Water Inlet	Body	Water Outlet	Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15011000	Stainless Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	5 kg
15011500	Galvanized Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	4,6 kg
15011100	Stainless Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	4,5 kg
15011600	Galvanized Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	4,25 kg

ISTEC® TYPE EW

EYE / FACE WASHES



15011200



15011700



Pipes

P/N	Material	Water Inlet	Body	Water Outlet	Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15011200	Stainless Steel	1/2"	1 ¼"	1 ¼"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	7,5 kg
15011700	Galvanized Steel	1/2"	1 ¼"	1 ¼"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	7 kg

ISTEC® TYPE EW

EYE / FACE WASHES



15012000



15012500

Pipes

P/N	Material	Water Inlet	Body	Water Outlet	Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15012000	Stainless Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	5 kg
15012500	Galvanized Steel	1/2"	1 ¼"	1 ¼"	Push Handle	300 mm	32X32X23 cm	4,5 kg

ISTEC® TYPE EW

EYE / FACE WASHES



15013000



15013500



15014000



15014500

Pipes

P/N	Material	Water Inlet	Body	Water Outlet	Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15013000	Stainless Steel	1/2"	1 ¼"	1"	Push Handle	300 mm	35X83X21 cm	10 kg
15013500	Galvanized Steel	1/2"	1 ¼"	1"	Push Handle	300 mm	35X83X21 cm	9 kg
15014000	Stainless Steel	1/2"	1 ¼"	1"	Push Handle + Foot Treadle	300 mm	35X83X21 cm	10,5 kg
15014500	Galvanized Steel	1/2"	1 ¼"	1"	Push Handle + Foot Treadle	300 mm	35X83X21 cm	10 kg

ISTEC® TYPE EW-ESL

LABORATORY TYPE EYE / FACE WASHES



15012345

15012335



15012020



15012525

Pipes

P/N	Material	Water Inlet	Body	Water Outlet	Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15012335	Stainless Steel	1/2"	1/2"	-	Horizontal Rotary Moving	-	32X32X23 cm	3 kg
15012345	Galvanized Steel	1/2"	1/2"	-	Vertical Rotary Moving	-	32X32X23 cm	3 kg
15012020	Stainless Steel	1/2"	1"	-	Push Handle	-	32X32X23 cm	3,05 kg
15012525	Galvanized Steel	1/2"	1"	-	Push Handle	-	32X32X23 cm	3 kg

ISTEC® TYPE EW-ESL

BUILT-IN TYPE EYE / FACE WASHES



15018500

Pipes

P/N	Material	Water Inlet	Body	Water Outlet	Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15018000	Stainless Steel	1/2"	-	1"	Lid opening	-	65x95x25 cm	16 kg
15018500	Galvanized Steel	1/2"	-	1"	Lid opening	-	65x95x25 cm	15 kg

ISTEC® TYPE ES

EMERGENCY SAFETY SHOWERS

ISTEC® Type ES emergency showers are certified according to;

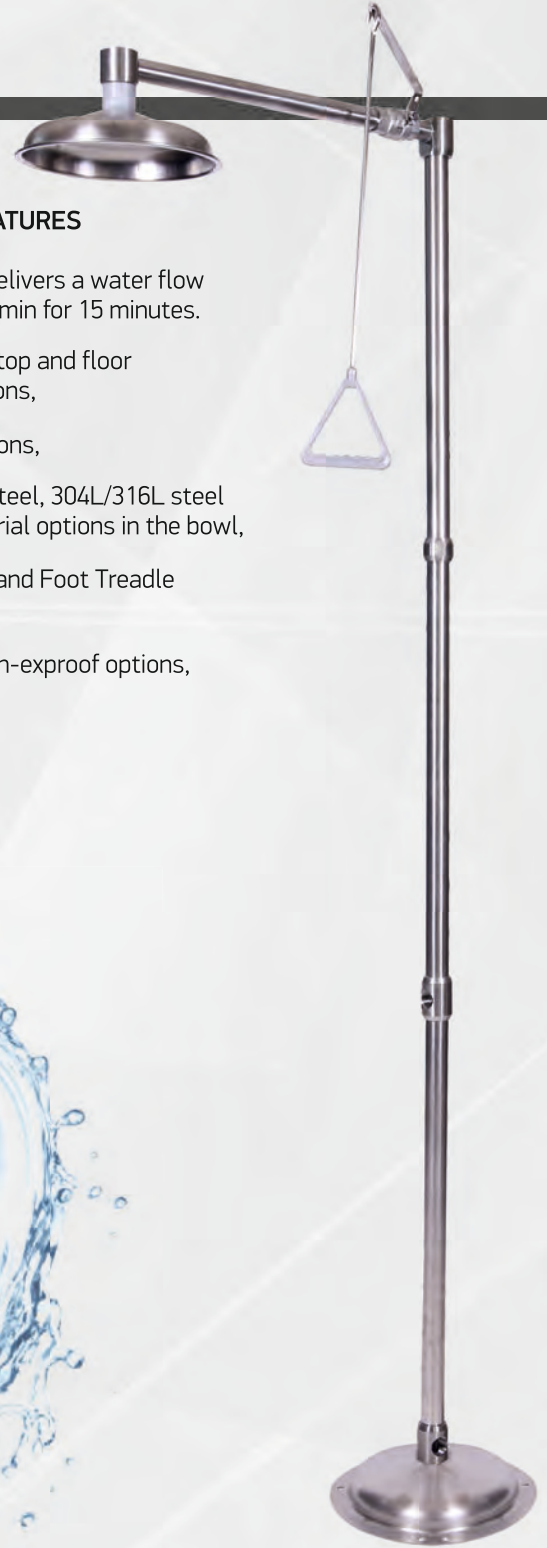
- TS EN 15154-1 and TS EN 15154-5
- ATEX
- GOST
- EAC
- ANSI / ISEA Z358.1 standards

OPTIONAL ACCESSORIES

Audible and Visual Alarm, Flow Switch, Lighting, Thermomixing Valve, Freeze Protection Valve, Scald Protection Valve, Pressure Regulator can be selected as Ex-Proof or Non Ex-Proof.

GENERAL FEATURES

- The shower delivers a water flow at least 75.7 l/min for 15 minutes.
- Wall, countertop and floor mounting options,
- Material options,
- Galvanized Steel, 304L/316L steel and ABS material options in the bowl,
- Push Handle and Foot Treadle activations,
- Ex-proof / Non-exproof options,



EN 15154-1



Pipes							
P/N	Material	Water Inlet	Body	Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15021000	Stainless Steel	1"	1 ¼"	Pull Rod	300 mm	35x83x21 cm	16,5 kg
15021500	Galvanized Steel	1"	1 ¼"	Pull Rod	300 mm	35x83x21 cm	15 kg
15022000	Stainless Steel	1"	1 ¼"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	17,5 kg
15022500	Galvanized Steel	1"	1 ¼"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	16 kg
15023000	Stainless Steel	1"	1 ¼"	Pull Rod	300 mm	35x83x21 cm	15 kg
15023500	Galvanized Steel	1"	1 ¼"	Pull Rod	300 mm	35x83x21 cm	14 kg
15024000	Stainless Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	5,5 kg
15024500	Galvanized Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	5 kg
15024020	Stainless Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	4,7 kg
15024520	Galvanized Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	5,5 kg
15024030	Stainless Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	8,5 kg
15024530	Galvanized Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	8 kg
15025000	Stainless Steel	1"	1 ¼"	Platform	300 mm	85x96x27 cm	30 kg
15025500	Galvanized Steel	1"	1 ¼"	Platform	300 mm	85x96x27 cm	29 kg
15028000	Stainless Steel	1"	1 ¼"	Platform	300 mm	85x96x27 cm	30 kg
15028500	Galvanized Steel	1"	1 ¼"	Platform	300 mm	85x96x27 cm	29 kg
15028080	Stainless Steel	1"	1 ¼"	Platform	300 mm	71x121x27 cm	34 kg
15028585	Galvanized Steel	1"	1 ¼"	Platform	300 mm	71x121x27 cm	33 kg

ISTEC® TYPE ES

EMERGENCY SAFETY SHOWERS



15021000



15021500



15022000



15022500

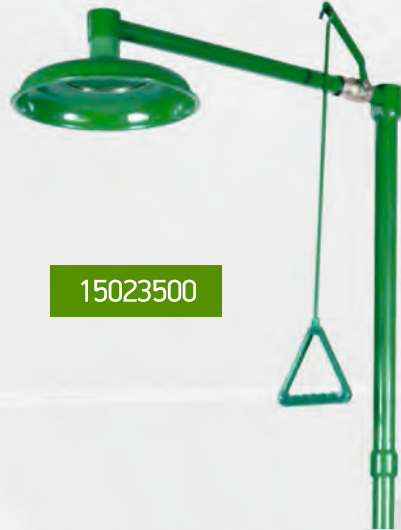
P/N	Material	Pipes		Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body				
15021000	Stainless Steel	1"	1 ¼"	Pull Rod	300 mm	35x83x21 cm	16,5 kg
15021500	Galvanized Steel	1"	1 ¼"	Pull Rod	300 mm	35x83x21 cm	15 kg
15022000	Stainless Steel	1"	1 ¼"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	17,5 kg
15022500	Galvanized Steel	1"	1 ¼"	Push Handle + Foot Treadle	300 mm	35x83x21 cm	16 kg

ISTEC® TYPE ES

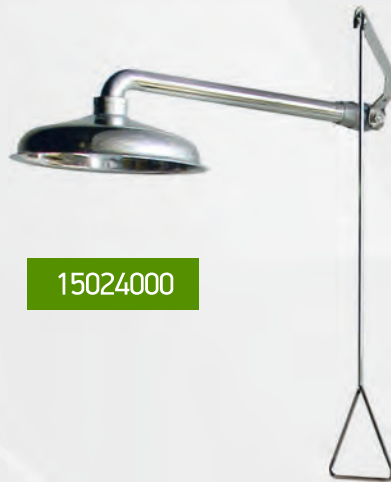
EMERGENCY SAFETY SHOWERS



15023000



15023500



15024000



15024500

P/N	Material	Pipes		Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body				
15023000	Stainless Steel	1"	1 ¼"	Pull Rod	300 mm	35x83x21 cm	15 kg
15023500	Galvanized Steel	1"	1 ¼"	Pull Rod	300 mm	35x83x21 cm	14 kg
15024000	Stainless Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	5,5 kg
15024500	Galvanized Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	5 kg

ISTEC® TYPE ES

EMERGENCY SAFETY SHOWERS



15024020



15024520



15024530

P/N	Material	Pipes		Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body				
15024020	Stainless Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	4,7 kg
15024520	Galvanized Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	5,50 kg
15024030	Stainless Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	8,50 kg
15024530	Galvanized Steel	1"	1"	Pull Rod	300 mm	35x83x21 cm	8 kg

ISTEC® TYPE ES

EMERGENCY SAFETY SHOWERS



P/N	Material	Pipes		Activation	Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body				
15025000	Stainless Steel	1"	1 ¼"	Platform	300 mm	85x96x27 cm	30 kg
15025500	Galvanized Steel	1"	1 ¼"	Platform	300 mm	85x96x27 cm	29 kg
15028000	Stainless Steel	1"	1 ¼"	Platform	300 mm	85x96x27 cm	30 kg
15028500	Galvanized Steel	1"	1 ¼"	Platform	300 mm	85x96x27 cm	29 kg

ISTEC® TYPE ESW

COMBINED EMERGENCY SAFETY SHOWERS



ISTEC® Type ESW combination showers are certified according to;

- TS EN 15154-1
 - TS EN 15154-2
 - TS EN 15154-5
 - ATEX
 - GOST
 - EAC
- ANSI / ISEA Z358.1 standards.

OPTIONAL ACCESSORIES

Audible and Visual Alarm, Flow Switch, Lighting, Thermomixing Valve, Freeze Protection Valve, Scald Protection Valve, Pressure Regulator can be selected as Ex-Proof or Non Ex-Proof.

GENERAL FEATURES

- The emergency shower provides at least 75.7 l and and eye/face wash provides at least 1.5 l for 15 minutes.
- Wall and floor mounting options,
- Galvanized Steel, 304L/316L steel material options,
- Galvanized Steel, 304L/316L steel and ABS material options in the bowl,
- Hand-operated and foot-operated activation systems,
- Ex-proof / Non-exproof options,



		Pipes		Activation				
P/N	Material	Water Inlet	Body	Shower	Eye / Face Wash	Bowl Diameter	Package Dimensions (WxLxH)	Weight
15031000	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	21,6 kg
15031500	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	18 kg
15032000	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle + Foot Treadle	300 mm	35x83x21 cm	22,6 kg
15032500	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle + Foot Treadle	300 mm	35x83x21 cm	19 kg
15033000	Stainless Steel	1"	1 ¼"	Push Handle + Foot Treadle	Push Handle	300 mm	35x83x21 cm	21,5 kg
15033500	Galvanized Steel	1"	1 ¼"	Push Handle + Foot Treadle	Push Handle	300 mm	35x83x21 cm	19 kg
15034000	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	18,50 kg
15034500	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	16 kg
15034020	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	22 kg
15034520	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	20 kg
15035000	Stainless Steel	1"	1 ¼"	Platform	Push Handle + Foot Treadle	300 mm	85x96x27 cm	45 kg
15035500	Galvanized Steel	1"	1 ¼"	Platform	Push Handle + Foot Treadle	300 mm	85x96x27 cm	44 kg
15038000	Stainless Steel	1"	1 ¼"	Platform	Push Handle + Foot Treadle	300 mm	85x96x27 cm	32,5 kg
15038500	Galvanized Steel	1"	1 ¼"	Platform	Push Handle + Foot Treadle	300 mm	85x96x27 cm	30 kg
15038080	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	71x121x27 cm	40 kg
15038585	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	71x121x27 cm	38 kg

ISTEC® TYPE ESW

COMBINED EMERGENCY SAFETY SHOWERS



P/N	Material	Pipes		Activation		Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body	Shower	Eye / Face Wash			
15031000	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	21,6 kg
15031500	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	18 kg
15032000	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle + Foot Treadle	300 mm	35x83x21 cm	22,6 kg
15032500	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle + Foot Treadle	300 mm	35x83x21 cm	19 kg

ISTEC® TYPE ESW

COMBINED EMERGENCY SAFETY SHOWERS



P/N	Material	Pipes		Activation		Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body	Shower	Eye / Face Wash			
15033000	Stainless Steel	1"	1 ¼"	Push Handle + Foot Treadle	Push Handle	300 mm	35x83x21 cm	21,5 kg
15033500	Galvanized Steel	1"	1 ¼"	Push Handle + Foot Treadle	Push Handle	300 mm	35x83x21 cm	19 kg
15034000	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	18,5 kg
15034500	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	16 kg
15034020	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	22 kg
15034520	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	35x83x21 cm	20 kg

ISTEC® TYPE ESW

COMBINED EMERGENCY SAFETY SHOWERS



15035000



15035500

P/N	Material	Pipes		Activation		Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body	Shower	Eye / Face Wash			
15035000	Stainless Steel	1"	1 ¼"	Platform	Push Handle + Foot Treadle	300 mm	85x96x27 cm	45 kg
15035500	Galvanized Steel	1"	1 ¼"	Platform	Push Handle + Foot Treadle	300 mm	85x96x27 cm	45 kg

ISTEC® TYPE ESW

COMBINED EMERGENCY SAFETY SHOWERS



15038000



15038500

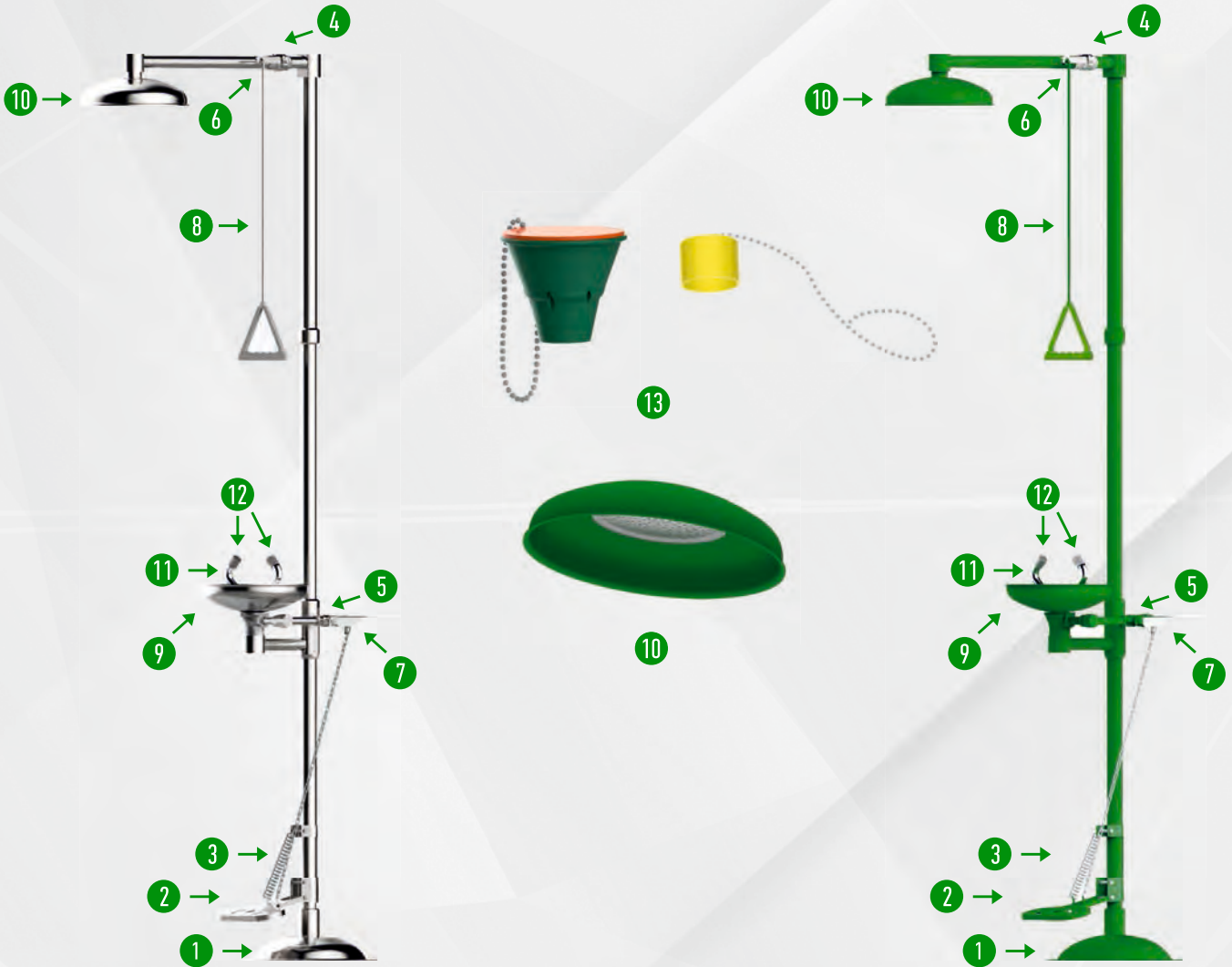
P/N	Material	Pipes		Activation		Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body	Shower	Eye / Face Wash			
15038000	Stainless Steel	1"	1 ¼"	Platform	Push Handle + Foot Treadle	300 mm	85x96x27 cm	44 kg
15038500	Galvanized Steel	1"	1 ¼"	Platform	Push Handle + Foot Treadle	300 mm	85x96x27 cm	30 kg

OPTIONAL ACCESSORIES

	ISTEC® TYPE EW EYE/FACE WASHES	ISTEC® TYPE ES EMERGENCY SAFETY SHOWERS	ISTEC® TYPE ESW EMERGENCY SAFETY SHOWERS AND EYE/FACE WASHES
Water Pressure Regulator	✓	✓	✓
Chemical Resistant Coating	✓	✓	✓
Flanged Water Inlet	✓	✓	✓
Audible and Visual Alarm	✓	✓	✓
Grating / Drain Sump		✓	✓
GSM Warning System	✓	✓	✓
Freeze Protection Valve	✓	✓	✓
Scald Protection Valve	✓	✓	✓
ABS/Stainless/Galvanized Steel Eyewash Bowl	✓		✓
ABS/Stainless/Galvanized Steel Shower Head		✓	✓
ABS/Stainless/Galvanized Steel Lifting Lid/Cover	✓		✓
Thermorubber Dust Covers	✓		✓
Privacy Curtain		✓	✓
Pipe and Fittings Insulation		✓	✓



SPARE PARTS



		STAINLESS STEEL P/N	GALVANIZED AND PAINTED STEEL P/N
1	Floor Mounting Flange	60009150	60009211
2	Foot Treadle Set	60009604	60009603
3	Spring for Foot Treadle	60009119	60009119
4	1" Ball Valve	60009043	60009064
5	1/2" Ball Valve	60009047	60009070
6	1" Valve Handle	60009185	60009224
7	1/2" Valve Push Handle Set	60009591	60009592
8	Pull Rod	60009828	60009219
9	Eye Wash Bowl / Shower Head	60009160	60009221
10	ABS Eye Wash Bowl / Shower Head	60009301	60009301
11	Twin Spray Nozzles Set	60009680	60009680
12	Spray Nozzles (Aerator)	60009111	60009111
13	Dust Covers Set	60009556	60009556

ISTEC® TYPE OWT

630/1260 L OVERHEAD TANK SHOWERS

ISTEC® Type OWT emergency tank showers are certified according to;

- TS EN 15154-1
- TS EN 15154-2
- TS EN 15154-3
- ATEX
- GOST
- EAC
- ANSI / ISEA Z358.1 standards.

OPTIONAL ACCESSORIES

- The emergency shower provides at least 75.7 l and and eye/face wash provide at least 11,4 l for 15 minutes. (It must be connected to mains supply.)
- Galvanized Painted / Stainless Steel material options,
- Galvanized Painted, 304L/316L steel options in pipes,
- Galvanized Painted, 304L/316L steel and ABS material options in the bowl,
- Push Handle, Foot Treadle and platform activation systems,
- Green, yellow and white color options for galvanized painted models,
- Ex-proof / Non-exproof options,
- Shower Head : 300 mm diameter (250 mm diameter in ABS)
- Eyewash Bowl : 300 mm diameter (250 mm diameter in ABS)
- Water Inlet: 1",
- Water outlet: 1 ½"
- Galvanized Painted, Stainless 304L/316L, GRP and Polycarbonate options for panels
- Galvanized, Stainless 304L/316L and GRP options for water tanks
- Water tanks with float valve

GENERAL FEATURES

- Ex-proof or Non Ex-proof Audible And Visual Alarm
- Ex-proof or Non Ex-proof chiller cooling unit (for hot climates)
- Water Immersion heater (for cold climates)
- Scald or Freeze Protection Valve
- Panic/Push Bar
- Treadle Foot activation for eye wash and shower
- Overhead Sun Canopy
- Ex-proof or non ex-proof flow switch
- Side and Rear panels
- Spring Loaded Doors
- Water Level Indicator
- Water Temperature Gauge
- Water Low And High Temperature Alarm
- Drain Sump and Grating
- Ex-proof / Non Ex-proof Internal or External lighting
- Shower activation platform
- Eyewash may be located internally or externally, on the right or left
- Ex-proof or non ex-proof space heater
- Ex-proof or non ex-proof flow switch
- Brass/Stainless Steel Pressure regulator
- Stainless steel/Galvanized steel carrying rings
- Thermo mixing valve
- Packing with wooden pallet
- Exproof/Non-exproof Electrical junction box
- Side and rear panel insulation / Water tank insulation
- Water temperature sensor
- Water level sensor
- Exproof / Non-exproof Proximity Switch



ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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ISTEC® TYPE OWT

1500/1890 L OVERHEAD TANK SHOWERS

ISTEC® Type OWT emergency tank showers are certified according to;

- TS EN 15154-1
- TS EN 15154-2
- TS EN 15154-3
- ATEX
- GOST
- EAC
- ANSI / ISEA Z358.1 standards.

GENERAL FEATURES

- The emergency shower provide at least 75.7 l and eye/face wash provide at least 11,4 l for 15 minutes.
- Galvanized Painted / Stainless Steel material options,
- Galvanized Painted, 304L/316L steel options for pipes,
- Galvanized Painted, 304L/316L steel and ABS material options for bowl,
- Push handle, foot treadle and platform activation systems,
- Green, yellow and white color options for galvanized painted models,
- Ex-proof / Non-exproof options,
- Shower Head : 300 mm diameter (250 mm diameter in ABS)
- Eyewash Bowl : 300 mm diameter (250 mm diameter in ABS)
- Water Inlet: 1",
- Water outlet: 1 ½"
- Galvanized Painted, Stainless 304L/316L, GRP and Polycarbonate options for panels
- Galvanized, Stainless 304L/316L and GRP options for water tanks
- Water tanks with float valve

OPTIONAL ACCESSORIES

- Ex-proof or Non Ex-proof Audible And Visual Alarm
- Ex-proof or Non Ex-proof chiller cooling unit (for hot climates)
- Water Immersion Heater (for cold climates)
- Scald or Freeze Protection Valve
- Panic/Push Bar
- Treadle Foot activation for eye wash and shower
- Overhead Sun Canopy
- Ex-proof or non ex-proof flow switch
- Side and Rear Panels
- Spring Loaded Doors
- Water Level Indicator
- Water Temperature Gauge
- Water Low And High Temperature Alarm
- Drain Sump and Grating
- Ex-proof / Non Ex-proof Internal or External lighting
- Shower activation platform
- Eyewash may be located internally or externally, on the right or left side of the cabin
- Ex-proof or non ex-proof space heater
- Ex-proof or non ex-proof flow switch
- Brass/Stainless Steel Pressure regulator
- Stainless steel/Galvanized steel carrying rings
- Thermomixing valve
- Packing with wooden pallet
- Exproof/Non-exproof Electrical junction box
- Side and rear panel insulation / Water tank insulation
- Water temperature sensor
- Water level sensor
- Exproof / Non-exproof Proximity Switch



ISTEC® TYPE OWT-SMART

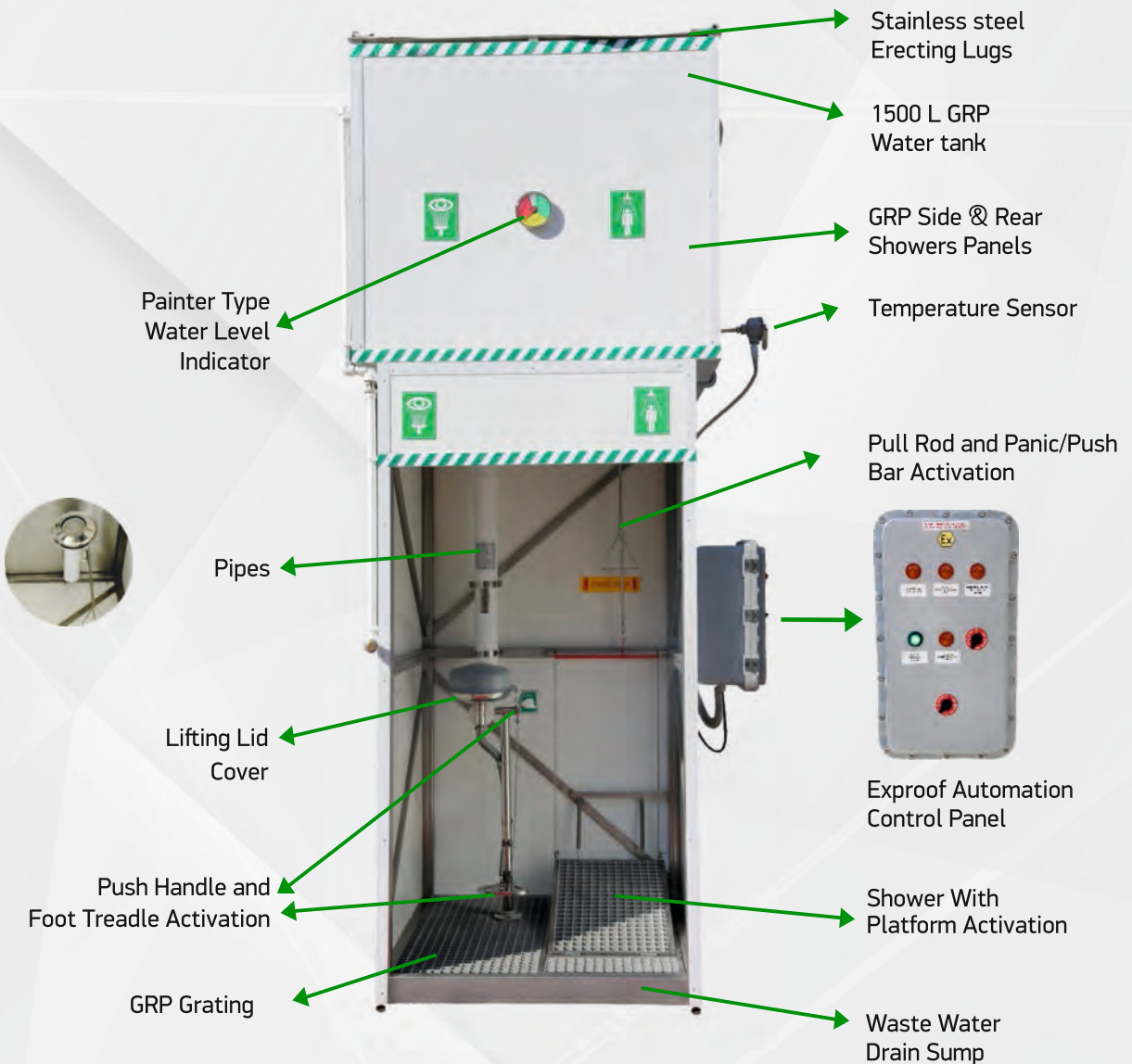
OVERHEAD TANK SHOWERS WITH AUTOMATION TECHNOLOGY

GENERAL FEATURES:

Automation systems are generally used to monitor the status of more than one emergency shower, which are dispersed in different geographical areas, especially in a large facility, remotely monitoring vital data such as the water level in the water tank, the temperature of the water, any malfunction in the system, whether the shower is used or not.

Thanks to these systems, the advantage of performing the functions of collecting and controlling information about emergency showers spread over a wide geographical area from a central control point is offered reliably, safely and economically.

- Thanks to the automation system, it is ensured to be informed about all situations and to intervene in the system immediately.



GENERAL FEATURES

- Emergency Shower systems provide 15 minutes of continuous water flow, which is the requirement of the standard.
- There is a hydrophore pump assembly at the cold water inlet. 6-8 bar water pressure is provided.
- There is an anode protection bar that provides resistance against corrosion due to the tank.
- Thanks to the circulation pump, it is ensured that the desired water temperature is reached the showers instantly and at the same time, it prevents from the bacteria growth.
- Water tanks of various capacities, immersion heaters are designed in accordance with the conditions of the workplace.
- Safety valve on the tank with protection against high pressure and temperature
- Digital thermostat on the control panel for water temperature adjustment
- Safety thermostat against extremely high temperatures
- Pressure reducers at the warm water outlet
- Drain valve to drain the water in the tank at desired times



- Optional Accessories that can be connected to the Emergency Shower Unit

- Audible and Visual Alarm
- Lighting
- Scald and freeze protection valve
- Eye wash foot treadle
- Flow Switch
- Water Pressure Regulator
- Eye wash cover
- Pipe insulation



EN 15154-1



EN 15154-2



EN 15154-5



ISTEC® TYPE CCM

CUBICLE MOUNTED EMERGENCY SHOWER AND EYE/FACE WASH

Suitable for indoor applications.

GENERAL FEATURES

- The emergency shower provides at least 75.7 l/min and eye/face wash provides at least 11,4 l/min of water flow for 15 minutes. It provides 1000 liters/min water flow in Class III showers.
- Galvanized steel, 304K / 316K Stainless steel and GRP material options,
- Ex-proof / Non-exproof options,
- Hand-operated and foot-controlled activation systems,
- Insulated and heated inside for cold climates,
- Spring loaded and insulated doors,
- Body shower bowl: 300 mm diameter (250 mm diameter in ABS)
- Eye shower bowl: 300 mm diameter (250 mm diameter in ABS)
- Water inlet: 1"
- Water outlet : 1 1/2"
- Galvanized Painted, Stainless 304L/316L, GRP and Polycarbonate options for panels

OPTIONAL ACCESSORIES

- Ex-proof / Non-exproof Audible and Visual Alarm
- Eye/face wash can be located internally or externally, on the right or left side
- Treadle Foot activation for eye wash
- Exproof / Non-exproof Indoor and outdoor lighting
- Spring loaded doors
- PVC Curtain
- Cable heating, insulation and PVC jacket for showers
- Packing with wooden pallet
- Panic bar
- Platform Activation
- Drain Sump and Grating
- Scald protection valve
- Freeze protection valve
- Erecting lugs
- Ex-proof or non ex-proof flow switch
- Ex-proof or non exproof cabin heater
- Ex-proof or non-exproof electrical junction box



EN 15154-1



EN 15154-2



EN 15154-5



ISTEC® TYPE CCM

INSULATED, HEATED CUBICLE MOUNTED EMERGENCY SHOWER AND EYE/FACE WASH

Suitable for outdoor applications.

GENERAL FEATURES

- The emergency shower provides at least 75.7 l/min and eye/face wash provides at least 11,4 l/min of water flow for 15 minutes.
- Galvanized steel, 304K / 316K Stainless steel and GRP material options,
- Ex-proof / Non-exproof options,
- Hand-operated and foot-controlled activation,
- Insulated and heated inside for cold climates,
- Spring loaded and insulated doors,
- Suitable for use at 40°C / +55°C ambient temperature,
- Body shower bowl: 300 mm diameter (250 mm diameter in ABS)
- Eye shower bowl: 300 mm diameter (250 mm diameter in ABS)
- Water inlet: 1"
- Water outlet : 1 1/2"
- Galvanized Painted, Stainless 304L/316L, GRP and Polycarbonate options for side & rear panels

OPTIONAL ACCESSORIES

- Ex-proof / Non-exproof Audible and Visual Alarm
- Eye/face wash can be located internally or externally, on the right or left side
- Treadle Foot activation for eye wash
- Flanged water inlet
- Exproof / Non-exproof Indoor and outdoor lighting
- Spring loaded doors
- PVC Curtain
- Cable heating, insulation and PVC jacket for showers
- Packing with wooden pallet
- Panic bar
- Platform Activation
- Drain Sump and Grating
- Scald protection valve
- Freeze protection valve
- Erecting lugs
- Ex-proof or non ex-proof flow switch
- Ex-proof or non exproof cabin heater
- Ex-proof or non-exproof electrical junction box



EN 15154-1



EN 15154-2



EN 15154-5



ISTEC® TYPE ICH

TRACE HEATED, INSULATED AND JACKETED EMERGENCY SHOWER AND EYE/FACE WASHES

GENERAL FEATURES

- The emergency shower provides at least 75.7 l/min and eye/face wash provides at least 11,4 l/min of water flow for 15 minutes.
- Electric cable heating, which prevents the water in the pipes from freezing,
- Galvanized steel, Stainless steel material options,
- 304K/316K steel options for pipes,
- Ex-proof / Non-exproof options,
- Galvanized painted, 304K/316K steel and ABS material options for bowl.
- Hand-operated and foot-controlled activation systems,

OPTIONAL ACCESSORIES

- Ex-proof / Non-exproof Audible and Visual Alarm
- Ex-proof/Non-exproof Flow Switch,
- Exproof/Non-exproof Lighting,
- Exproof/Non-exproof Junction Box
- Exproof/Non-exproof thermostat
- Thermomixing valve,
- Water inlet flange,
- Drain sump
- Scald protection valve



EN 15154-1



EN 15154-2



EN 15154-5



ISTEC® TYPE ESW

FREEZE-PROOF EMERGENCY SHOWERS & EYE/FACE WASHES



P/N	Material	Pipes		Activation		Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body	Shower	Eye / Face Wash			
15028080	Stainless Steel	1"	1 ¼"	Platform	-	300 mm	71x121x27 cm	34 kg
15028585	Galvanized Steel	1"	1 ¼"	Platform	-	300 mm	71x121x27 cm	33 kg
15038080	Stainless Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	71x121x27 cm	42 kg
15038585	Galvanized Steel	1"	1 ¼"	Pull Rod	Push Handle	300 mm	71x121x27 cm	38 kg

ISTEC® TYPE ESW

FREEZE-PROOF EMERGENCY SHOWERS & EYE/FACE WASHES



P/N	Material	Pipes		Activation		Bowl Diameter	Package Dimensions (WxLxH)	Weight
		Water Inlet	Body	Shower	Eye / Face Wash			
15017000	Stainless Steel	1"	1 ¼"	Foot Treadle	Foot Treadle	300 mm	35x83x21 cm	21 kg
15017500	Galvanized Steel	1"	1 ¼"	Push Handle	Push Handle	300 mm	35x83x21 cm	21 kg
15039000	Stainless Steel	1"	1 ¼"	Push Handle	Foot Treadle	300 mm	45x89x27 cm	24 kg
15039500	Galvanized Steel	1"	1 ¼"	Push Handle	Foot Treadle	300 mm	45x89x27 cm	23 kg
15039570	Galvanized Steel	1"	1 ¼"	Push Handle	Push Handle	300 mm	35x99x27 cm	24,5 kg
15039570-L	Galvanized Steel	1"	1 ¼"	Push Handle	Push Handle	300 mm	35x99x27 cm	24,5 kg

ISTEC® TYPE EW-P

PORTABLE EYE WASHES WITH FIXED OR TRIGGERED VALVE AND PRESSURIZED WATER TANK

15019011

15019020

15019022

The pressure tanks of the units are produced and certified in accordance with the EN 13445:2014 standard in accordance with the 2014/68/EU regulation, they are products with proven safety that carry the CE mark.

GENERAL FEATURES

- Can be produced in different capacities according to customer's demand. Works with compressed air.
- Designed to use in areas where fixed eye/face wash fountains can not be installed and where there are various hazards at working areas or during temporary work.
- Can be carried by one people easily by optional wheeled trolley system.
- 2" filling plug is available.
- There is a regulator at the water outlet of the tank to ensure that the flow is controlled and regular.
- In case of danger, aerated clean water is sprayed by pressing the valve lever.
- Produced with push handle operated and fixed nozzle as standard. Shower systems and parts can be produced from stainless steel.



15019022



15019020



15019011



EN 15154-4



GOST-R



60009233



Carrying Trolley is Optional.

ISTEC® TYPE EW-P

GRAVITY FED PORTABLE EYE WASHES WITH POTABLE AND WASTE WATER TANK AND TROLLEY

15019030

15019530

15019630

15019730

GENERAL FEATURES

- Can be produced in different capacities according to customer's demand.
- Designed to use in areas where fixed eye/face wash can not be installed and where there are various hazards at working areas or during temporary work.
- Can be carried by one people easily by wheeled trolley system.
- 2" filling plug is available.
- There is a regulator at the water outlet of the tank to ensure that the flow is controlled and regular.
- In case of hazard, aerated clean water is sprayed by pressing the valve lever.
- Produced with push handle operated and fixed nozzle as standard. Shower systems and parts can be produced from stainless steel.



15019730



15019030

P/N	Tank Material	Wheel Material	Water Inlet	Portable Water Tank Capacity	Waste Water Tank Capacity	Eye Wash	Eye Wash Bowl
15019030	Stainless Steel	Galvanized Steel	1 ¼"	40 L	40 L	Push Handle	300 mm
15019530	Galvanized Steel	Galvanized Steel	1 ¼"	40 L	40 L	Push Handle	300 mm
15019630	Stainless Steel	Galvanized Steel	1 ¼"	40 L	65 L (PE)	Push Handle	300 mm
15019730	Galvanized Steel	Galvanized Steel	1 ¼"	40 L	65 L (PE)	Push Handle	300 mm

ISTEC® TYPE EW-P

GRAVITY FED PORTABLE EYE WASHES

GENERAL FEATURES

15019070

- Meets the requirements of ANSI Z358.1 standard. According to ANSI Z358.1 and standard, the unit provides minimum 1.5 liters per minute at least 15 minutes.
- Portable eye wash units use gravity to spray water through double spray heads.
- The unit provides uninterrupted water for 15 minutes. The plastic tank can be installed in a wide variety of places without portable water supply.
- It should be filled with clean, potable water and added sterilized liquid. The unit should be inspected regularly and the water should be changed at least every six months.
- The self-contained unit provides water for 15 minutes.
- Carrying handles provide an easy handling.
- Made of chemical resistant, high density polyethylene material.
- Wide filling cover is available for easy filling, cleaning and inspection.
- Spray nozzle heads cover a large area around the eye.
- Simple strap design allows easy removal and activation for hands-free washing.
- Each eye wash unit is provided with an emergency safety sign.



EN 15154-4

15019075



ISTEC® TYPE MSS MOBILE SAFETY SHOWERS

The pressure tanks of the units are certified according to the EN 13445:2014 standard in accordance with the 2014/68/EU regulation.

GENERAL FEATURES

- Works with compressed air.
- 50, 70, 100 and 350 liters options are available. Stainless steel or galvanized painted shower system and part options are available.
- More than ½ minute constant flow for 50 liters, 1 minute constant flow for 75 liters, more than 1 minute constant flow for 100 liters, 2.5 minutes water flow for 350 liters.
- High maneuverability thanks to its large diameter wheels.
- There is a regulator at the water outlet of the tank to ensure that the flow is controlled and regular.
- Produced with push handle operated and fixed nozzle as standard.

OPTIONAL ACCESSORIES

- Fixed Nozzle System,
- Trigger Valve System.
- Exproof/Non-exproof Immersion heater
- Exproof/Non-exproof Flow Switch
- Exproof/Non-exproof Visual and Audible alarm
- Exproof/Non-exproof Lighting



ISTEC® TYPE MSS

TRAILER MOUNTED EMERGENCY SHOWER AND EYE/FACE WASHES WITH 1500 L WATER TANK

GENERAL FEATURES

- Standard 1500 l Mobile Tank Showers guarantee 15 minutes of water flow according to the standard requirements at below circumstances;

1. Without mains (water) supply connection
2. At low water pressure
3. Interruption of flow in existing water supply connection. Ideal for applications where there is no mains water supply

-Trailer is equipped with signals, lights, oblong plate, parking brake etc, according to highway regulations

-Suitable for temperatures -5 °c / +40 °c

-Stainless steel or galvanized painted steel shower material and green, yellow, white color options are available.

-Pneumatic water pump for hazardous areas and electrical pump for non hazardous areas.

- For the operation of the pneumatic pump, it is sent with pressure regulator, 50 L 200 Bar Air tube (with brackets and straps), fixing feet, buffer, water level indicator, expansion tank, safety signs with green-white stripes.



15037000



EN 15154-1



EN 15154-2



EN 15154-5



ISTEC® TYPE DECO

DECONTAMINATION SHOWERS

INDUSTRIAL TYPE STANDARD DECONTAMINATION UNIT

GENERAL FEATURES

- Decontamination Showers provides sanitation and decontamination to the people exposed to chemical or biological agents, As well as to extinguish burning clothes.

- Autostart once stepped on the platform.
- 14 spray nozzles sprays water to whole body.
- Swivelling spray provides easy decontamination.
- Stainless Steel or Galvanized and Painted steel material options.



OPTIONAL ACCESSORIES

- Ex-proof or Non Ex-proof Audible And Visual Alarm
- Ex-proof or Non Ex-proof Lighting
- GRP platform
- 316 Stainless Steel Material
- Water Pressure Regulator
- Flanged inlet
- Side and Rear panels or Shelter
- Water tank



PORTABLE DECONTAMINATION UNITS

The unit certified according to TS EN 13445: 2014 standard.

15056000

GENERAL FEATURES

- These are systems that provide people exposed to chemical, biological and nuclear effects to be purified by spraying water all over their bodies.
- The unit is designed for warm and hot areas.
- The capacity is suitable for 1-10 staff.
- The unit provides an effective response at high speed with water or decontamination fluids.
- 50 L-75L-100L Alternative Capacity, Internal Pressure, Trolley,
- Portable, Tank Features The pressure tanks(50L, 75L, 100L, 350L) of the units are manufactured and certified according to EN 13445: 2014 in accordance with the 2014/68 / EU directive.



ISTEC® TYPE DECO-MOBILE

DECONTAMINATION SHOWERS

PORTABLE DECONTAMINATION UNIT WITH POOL

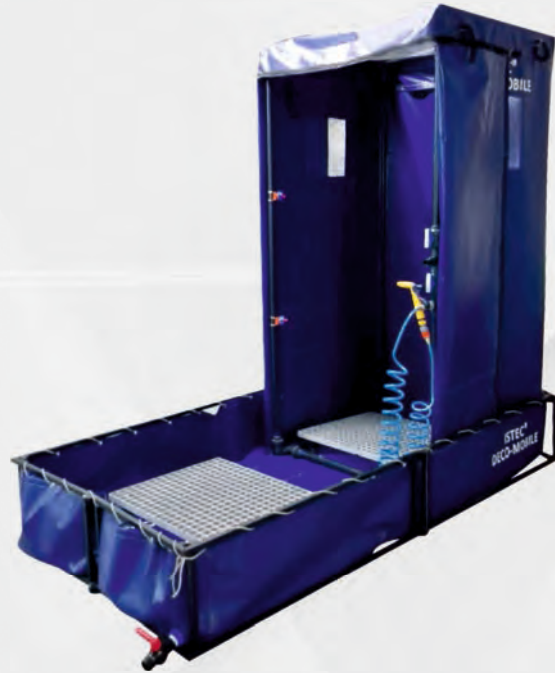
15053000

GENERAL FEATURES

- These are systems that provide people exposed to chemical, biological and nuclear effects to be purified by spraying water all over their bodies.

Unit Weight: 38 kg
Unit Size: 106x91x214 cm
Pool Weight: 14.5 kg
Pool Size: 120x240x36 cm

- Easy to carry, easy to install and easy to fold system operating in the 2-5 bar range



EN 15154-6



ISTEC® TYPE DECO-MARINE

DECONTAMINATION SHOWERS

PORTABLE, MODULAR TYPE, PLATFORM OPERATED, CBRN TYPE DECONTAMINATION UNIT WITH WASTE WATER DRAIN SUMP

Single Stage Unit

P/N: 15054000 / 15054500

Double Stage Unit

P/N: 15055000 / 15055500

GENERAL FEATURES

- Decontamination showers provide sanitation and decontamination to the people exposed to chemical or biological agents, as well as to extinguish burning clothes.
- System works with pressurized water.
- Autostart once stepped on the platform.
- Movable Spray nozzles sprays necessary water to whole body.
- Stainless Steel or Galvanized and
- Painted Steel material options.



Double Stage Unit

OPTIONAL ACCESSORIES OF SINGLE STAGE UNIT

- Ex-proof or Non Ex-proof Audible And Visual Alarm
- Ex-proof or Non Ex-proof Lighting
- GRP platform
- 316 Stainless Steel Material
- Water Pressure Regulator
- Flanged water inlet
- Side & Rear panels or Shelter
- Water tank



OPTIONAL ACCESSORIES OF DOUBLE STAGE UNIT

- Ex-proof or Non Ex-proof Audible And Visual Alarm
- Ex-proof or Non Ex-proof Lighting
- Trigger hand brush for chemical decontamination
- Mixing pump for chemical decontamination
- Strip curtain at entrance and exit of unit
- GRP platform
- 316 Stainless Steel Material
- Water Pressure Regulator
- Flanged water inlet
- Stainless Steel, Galvanized Steel or GRP Side & Rear panels or PU Shelter
- Water tank and hydrophore where there is not mains water supply
- Pump for waste water and waste water tank
- Thermomixing valve to mix cold and hot water

ISTEC® TYPE DECO-COMPACT DECONTAMINATION SHOWERS

WALL TYPE DECONTAMINATION UNIT

15057000 / 15057500

GENERAL FEATURES

- Systems that protect people exposed to chemical and biological effects by spraying detergent water and clean water over their entire bodies,
- First washing with detergent water, then rinsing with clean water,
- 6 nozzles,
- Shower head flow 90 lt/min,
- Brush flow 10 lt/min
- Suitability to be mounted on the wall,
- Stainless steel or galvanized steel material options,
- Option to increase the number of nozzles,
- Activation pull handle and hand control.



EN 15154-6



DM10 PORTABLE DECONTAMINATION UNIT

15059014

GENERAL FEATURES

- DM10 portable decontamination system is used in military, civil defense and industrial areas, chemical - biological - radiological particle contamination, living, equipment and environment decontamination.
- It has a stainless steel tank with a liquid capacity of 10 liters, resistant to 10 bar test pressure.
- It has a manual internal pressure pump system. It has a stainless steel lance with a locking mechanism and adjustable nozzle.
- There is a pressure manometer on the tank. For tank-lance connection, it has a hose with quick coupling system that is resistant to breakage and bending.
- It has an external attachable backrest system for easy and convenient transportation of the tank.



GENERAL FEATURES

- Durable galvanized painted steel construction,
- Glass door and high quality lock mechanism,
- It is shipped with all necessary safety signs,
- It is produced with 4 eyewash solution hangers as standard.

CABINET FEATURES

- 2 pieces of solution bottle slots, 2 pieces of chemical injury response solution bottle slots.
- Touch opening cabinet door.
- Solution usage information and warning labels on the cabinet.
- The glass partition on the cabinet door, the status of the solutions can be checked without opening the door.
- Rewritable acetate label indicating expiry date on solution bottles.
- Electrostatic galvanized painted sheet metal construction.

OPTIONAL ACCESSORIES

- 220V audible (130 dB) and visual alarm system activated by opening the cabinet door.
- Cable heating inside the cabinet for freeze protection,
- Thermometer
- Insulation inside the cabinet to help prevent freezing in cold weather



60009372



EYE WASH BOTTLES

500 ml EYE WASH

- 500 ml Eye Solution Sterile Sodium Chloride (NaCl 0,9%)
- Suitable for removing dust, dirt, metal and wood particles and foreign matter from the eye.
- There is a specially designed polypropylene cover suitable for the eye socket.
- Made in Europe.
- Directive 93/42/EEC(MDD)



15011930



250 ml CHEMICAL EYE WASH

- 250 ml Eye Solution Sterile (Phosphate 4.9%)
- Chemicals and Derivatives (Acids-Caustic Alkalis - Combustible Gases)
- For acid injuries, it is recommended to rinse the eye with 500 ml of Sterile eye solution after using 250 ml of Sterile Eye Solution Sterile Phosphate.
- There is a specially designed polypropylene cover suitable for the eye socket.
- Made in Europe.
- Directive 93/42/EEC(MDD)



15011940



2 x 500 ml EYE WASH STATION WITH MIRROR

- 2 pieces 500 ml Eye Solution Sterile Sodium Chloride (NaCl 0,9%)
- The front surface of the wall hanging apparatus has a protective transparent plastic cover.
- There are mounting screws in the wall hanging bracket.
- There is a mirror in the wall hanging apparatus.
- Shipped in sturdy cardboard packaging.
- It is suitable for use for emergency interventions.
- Made in Europe.
- Directive 93/42/EEC(MDD)



15011960



• 2 x 500 ml Eye Wash

250 x 500 ml EYE WASH STATION WITH MIRROR

- 500 ml Chemical Eye Wash
- 250 ml Chemical Eye Wash



15011970



safeCAN®

**SAFETY STORAGE & CARRYING &
PLUNGER & BENCH CANS**



TYPE 1 / TYPE 2 (STAINLESS STEEL)

TYPE 1 P/N	TYPE 2 P/N	Capacity	Description
22020002	22040002	2 LT	0,5 Gallon Stainless Steel 304
22020004	22040004	4 LT	1 Gallon Stainless Steel 304
22020007	22040007	7,5 LT	2 Gallon Stainless Steel 304
22020009	22040009	9,5 LT	2,5 Gallon Stainless Steel 304
22020011	22040011	11,5 LT	3 Gallon Stainless Steel 304
22020015	22040015	15 LT	4 Gallon Stainless Steel 304
22020019	22040019	19 LT	5 Gallon Gallon Stainless Steel 304

TYPE 1 / TYPE 2 (GALVANIZED STEEL)

TYPE 1 P/N	TYPE 2 P/N	Capacity	Description
22010002	22030002	2 LT	0,5 Gallon Galvanized Painted Steel
22010004	22030004	4 LT	1 Gallon Galvanized Painted Steel
22010007	22030007	7,5 LT	2 Gallon Galvanized Painted Steel
22010009	22030009	9,5 LT	2,5 Gallon Galvanized Painted Steel
22010011	22030011	11,5 LT	3 Gallon Galvanized Painted Steel
22010015	22030015	15 LT	4 Gallon Galvanized Painted Steel
22010019	22030019	19 LT	5 Gallon Galvanized Painted Steel

PLUNGER CANS (STAINLESS STEEL)

P/N	Capacity	Description
22050006	2 LT	Stainless Steel
22050008	4 LT	Stainless Steel

PLUNGER CANS (GALVANIZED STEEL)

P/N	Capacity	Description
22050002	2 LT	Galvanized Painted Steel
22050004	4 LT	Galvanized Painted Steel

BENCH CANS (STAINLESS STEEL)

P/N	Capacity	Description
22050001	0,5 LT	Stainless Steel
22050003	1 LT	Stainless Steel
22050005	2 LT	Stainless Steel

BENCH CANS (GALVANIZED STEEL)

P/N	Capacity	Description
22050007	0,5 LT	Galvanized Painted Steel
22050009	1 LT	Galvanized Painted Steel
22050011	2 LT	Galvanized Painted Steel

safeCAN®

SAFETY STORAGE & CARRYING & PLUNGER & BENCH CANS

safeCAN® TYPE 1 SAFETY STORAGE CANS

P/N : 22010002 - 22020002 TSE K 207

Produced in stainless steel and galvanized electrostatic powder painted steel. Produced in capacities of 2-4-7.5-9.5-11.5-15-19 liters. It is produced in different color codes for different chemicals. Red for flammable liquids, yellow for diesel, green for synthetic oils, blue for carosene, only stainless steel models are produced for solvents. Filling and pouring is done from a single cap with a flame trap. There is a spring and gasket on the cover to prevent leakage and spillage. Optional brass bass tap and grounding apparatus can be added to high-capacity models.

TSEK



safeCAN® TYPE 2 SAFETY STORAGE CANS

P/N : 22030002 - 22040002 TSE K 207

Produced in stainless steel and galvanized electrostatic powder painted steel. Produced in capacities of 2-4-7.5-9.5-11.5-15-19 liters. It is produced in different color codes for different chemicals. Red for flammable liquids, yellow for diesel, green for synthetic oils, blue for carosene, only stainless steel models are produced for solvents. The filler cap has a flame trap, anti-leakage spring and gasket system. Pouring cover has a flexible, detachable and metal hose. Optional grounding device is available.

TSEK



safeCAN® PLUNGER CANS

P/N : 22050006 - 22050002 TSE K 207

Produced in stainless steel and galvanized electrostatic powder painted steel. 2 and 4 liters are with internal pump. It is produced in different capacities. It provides saving, safety and hygiene in solvent and chemical cleaning works.

TSEK



safeCAN®

SAFETY STORAGE & CARRYING & PLUNGER & BENCH CANS

safeCAN® BENCH CANS

TSE K 207

Produced in 0,5, 1 and 2 liter capacities in stainless steel and galvanized electrostatic powder painted steel. It provides saving, safety and hygiene in solvent and chemical cleaning works.

TSEK



SPILL CONTAINMENT PALLETS

SPP 401 PLASTIC SPILL CONTAINMENT PALLET (FOR SINGLE DRUM)

P/N : 15061100

It has a leakage storage capacity of 42 liters with dimensions of 15 x 66 x 66 cm and a carrying capacity of 600 kg. It can be transported by forklift.



SPP 101 PLASTIC SPILL CONTAINMENT PALLET (FOR DOUBLE DRUMS)

P/N : 15061200

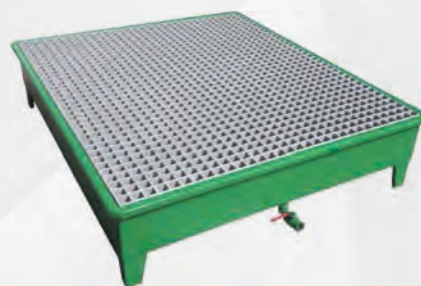
It has a leakage storage capacity of 80 liters with dimensions of 15 x 130 x 66 cm and a carrying capacity of 1500 kg. It can be transported by forklift.



safeCAN® GALVANIZED STEEL SPILL CONTAINMENT PALLET

P/N : 60009623

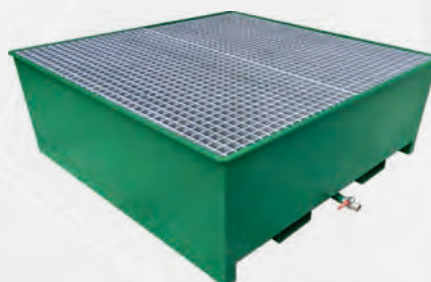
It is made in the requested size and capacity. It has carrying legs, brass faucet for leak drainage and optional grounding apparatus.



safeCAN® GALVANIZED STEEL DRAIN AND SPILL PALLET FOR DRUMS AND IBC TANKS

P/N : 60009623

It is made in the requested size and capacity. With its stepped structure, convenient and clean unloading and handling is done. It has carrying legs, brass faucet for leak drainage and optional grounding apparatus.



safeCAB®

FIRE SAFETY CABINETS & SAFETY STORAGE

safeCAB® FPC 1200 Type 90



safeCAB® FPC 1200 Type 90 safe containment cabinet is designed and manufactured to minimize the fire risks associated with the containment of flammable materials and to protect the cabinet contents during a fire for a specified (tested) period.

Net empty weight of the cabinet: 446 Kg
 Maximum load carrying capacity of the cabinet: 225 Kg
 Maximum shelf load capacity: 75 Kg
 Maximum capacity of a single container of the cabinet: 19 L
 Capacity of the spilled material collection: 23 L

Keep the cabinet in a vertical position so that it can be opened conveniently and easily.
 The turning area of the doors should always be kept free.
 Doors should be kept closed when not in use.
 Containers with a larger volume than the collecting chamber cannot be placed inside the cabinet.
 The cabinet works with a natural ventilation grating without being connected to an air discharge system.
 Check the position of the butterfly type fire damper on the top of the cabinet and make sure it is open.

ISTAIR®

MOBILE BREATHING AIR SUPPLY UNITS



ISTAIR®

MOBILE BREATHING AIR SUPPLY UNITS

PORTABLE BREATHING AIR SUPPLY TROLLEYS

2 X 6 l / 2 X 6,8 l CYLINDER

P/N: 05020300

ISTAIR® air supply trolleys are the compact and portable systems that provide breathing air necessary for the personnel to work for a determined period in the confined space that can not be entered with the self contained breathing apparatus.

2 x 6 L 300 bar
Steel Breathing
Air Cylinders



Pressure Regulator



Single or Double outlet options are available

x 2

Waist belt air connection adaptor and with manifold together (EN 14593-1)

Antistatic air hose on the reel.

An airline back-up device through automatic switch over valve equipped with positive pressure full face mask, cylinder and demand valve can be fitted to the system optionally. The back-up cylinder contains 600 liters of breathing air, which under normal conditions of use is enough to provide about 15 minutes duration for escaping in case of an emergency. Certified to EN 402 standard.



2 X 25 l / 2 X 50 l CYLINDER

P/N: 05020100

2 x 25 L 200 bar
Steel Breathing
Air Cylinders



Positive Pressure Full Face Mask & Demand Valve with belt, connection adaptor and manifold (Certified EN 148-3 standard)

Pressure Regulator



Single or Double outlet options are available

x 2

Waist belt air connection adaptor and with manifold together (EN 14593-1)

Antistatic air hose on the reel.

MOBILE BREATHING AIR SUPPLY UNITS WITH PORTABLE COMPRESSORS

Model	Tank Capacity	Diaphragm Composite Unit	Number of Users	Number of Reels	Protective Panel Option
İSTAIR® 80	80	2	1	1	✓
İSTAIR® 150	150	3	2	1-2	✓
İSTAIR® 350	300	6	3-4	2-4	✓

It provides breathing air in accordance with EN 12021:2015 standard. The 80 L, 150 L, 350 L stainless steel tank compressor system is designed for long-term work in confined spaces with oxygen deficiency. These systems have versions with compressors or steel/composite air cylinders suitable for the area of use. İSTAIR® breathing air supply units systems are supplied with EN 14592-1 certified, automatic demand valve, full face mask, waist belt and manifold, suitable for the number of users. It provides air to one, two, three or four users at the same time. It can be connected to 2 users with Y connection from a single reel (33 m + 5 m + 5 m) or each user can use a single reel (33 m) independently. The automatic demand valve automatically switches to the positive pressure position with the first breath. There is a special button on the additional air support. Mask, Demand and waist unit system complies with EN 14593-1 standard and is CE marked. Steel tubes in the products comply with ISO 9809 (or EN 1964-2) and composite tubes according to EN 12245 standards.

AUTOMATIC EMERGENCY MANIFOLD

- It is a manifold normally supplied by the air line via quick coupling and with a demand valve via a medium pressure hose and an outlet to a mask also with an inlet connection from an alternative emergency source.
- The device activates automatically when the supply from the air line is cut off for any reason or when the pressure drops to such a low value as to make it difficult to breathe (4 bar).
- It activates the emergency source (air tube) on the person.
- Warning whistle is available. It is a safety device that prevents the user from being suffocated in the event of an escape and interruption.



AIR DISTRIBUTION OPTIONS



Provides constant air flow a safe exit time in case of power cut.

ISTAIR®

MOBILE BREATHING AIR SUPPLY UNITS

ISTAIR® 80 L

P/N: 05020400

- Our products provide breathing air according to EN 12021: 2015 standard. Test reports are sent along with each product.
- Oil free electric compressor
- 2 filtering systems
- Integrated tube emergency evacuation system
- Steel reel and antistatic hose system
- Positive pressure full face mask and demand valve



x 1

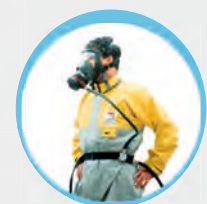
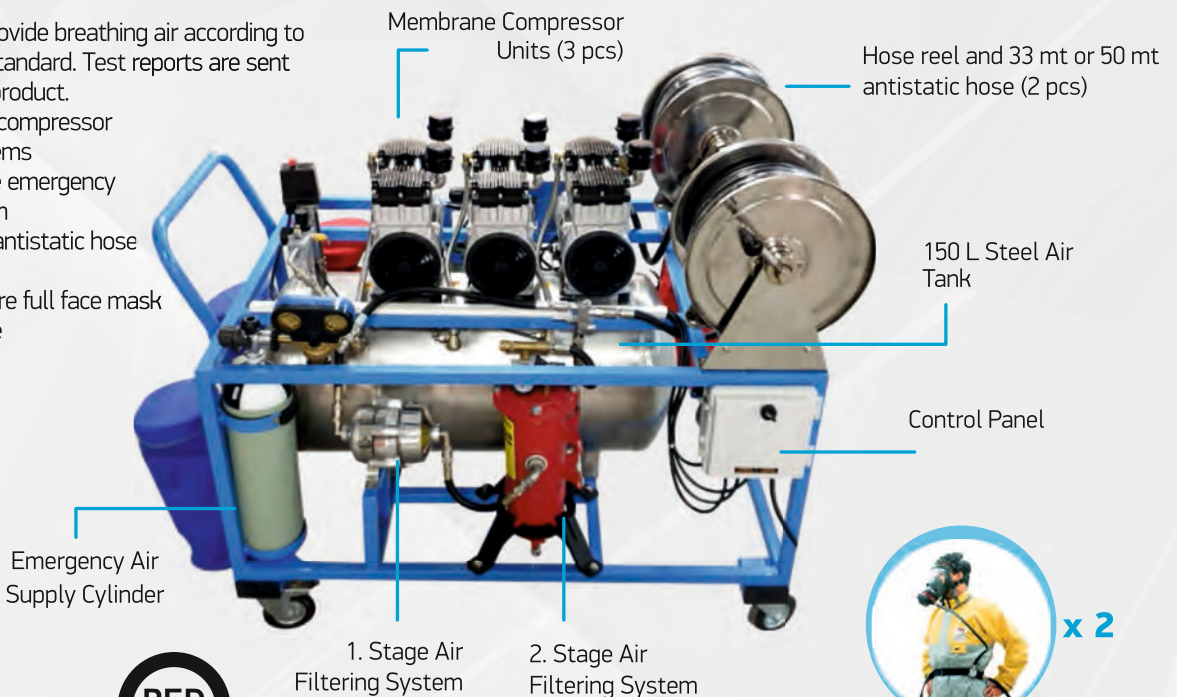
EN 14593-1



ISTAIR® 150 L

P/N: 05020451

- Our products provide breathing air according to EN 12021: 2015 standard. Test reports are sent along with each product.
- Oil free electric compressor
- 2 filtering systems
- Integrated tube emergency evacuation system
- Steel reel and antistatic hose system
- Positive pressure full face mask and demand valve



x 2

EN 14593-1



ISTAIR®

MOBILE BREATHING AIR SUPPLY UNITS

ISTAIR® 350 L

P/N: 05020200

- Our products provides breathing air according to EN 12021: 2015 standard. Test reports are sent along with each product.
- Oil free electric compressor
- 2 filtering systems
- Integrated tube emergency evacuation system
- Steel reel and antistatic hose system
- Positive pressure full face mask and demand valve



x 3
or
x 4



EN 14593-1

Protective Panel is Optional

ISTAIR® FUEL TANK AIR VENTILATION SYSTEM

P/N: 15071000

EN 14593-1

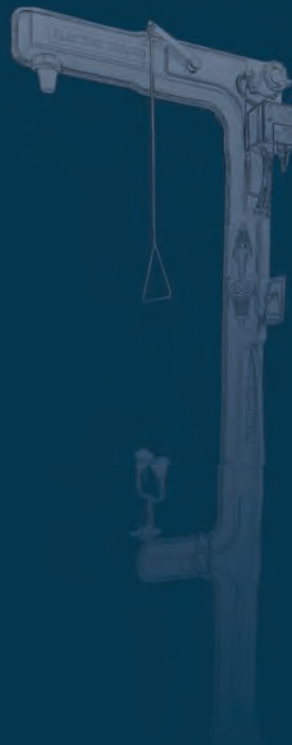


• It is made for the clean air of the tank to protect it from the dangers of explosive atmosphere.

- Pneumatic and ex-proof ventilator with dimensions of 12"x25", working with compressed air.
- Technical Specifications of the Ventilator:
- Weight: 12.7 kg
- Motor power: 1.5 Hp

- Noise level: 86 dBA
- Number of Cycles: 3000 rpm / min
- Motor air flow rate: 58.4 m³ / min
- Air Consumption for Fan Operation: 1,076 m³ / min
- Intrinsically safe system has UL and C-UL Certificates.
- Antistatic air duct: Antistatic and flame retardant feature
- Antistatic air hose: Provides the air required to operate the ventilator.
- Maximum inlet pressure: 7 bar





IST Safety Ltd

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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