

INTRODUCTION

We thank you for choosing **FYRTEX**[®] knitted clothings from **ISTEXTIL**[®] healthwear products, which are manufactured from special knitted fabrics and provide high levels of protection for your safety.

Industrial heat and flame applications contain various kinds of risks which affect human health. Specially designed 89/686/EEC Personal Protective Equipments should be used to remove those effects.

FYRTEX[®] industrial heat and flame protective garments are *Category II* under 89/686/EEC Personal Protective Equipments Directive complying various EN standards. These garments protect human body against heat and flame effects, welding applicaiton risks.

To reduce the possible risks;

- Proper selection and use of safety equipment
- Knowledge of design, performance and using limitations of EN standards
- **Knitted inner clothings usage for higher protection.**

ISTEXTIL[®] HEALTHWEAR PRODUCTS

FYRTEX[®] HEAT AND FLAME PROTECTIVE KNITTED CLOTHINGS

FYRTEX[®] heat and flame protective knitted garments have EC Type Examination Certificate which is mandatory according to Personnel Protective Equipment Directive 89/686/EEC. This certificate is the proof that the product should carry symbol of CE.

FYRTEX[®] heat and flame protective knitted garments are produced one-layered t-shirts-pants as a suit and two layered protective hoods. These types of garments are designed to help the workers to work highly productive and to protect them against cold, heat&flame effects in the environments which are required to use personnel protective equipments.

Knitted garments absorb the sweat quickly by fitting the body and keeps the body temperature steady via creating a microclimate on the skin. The products comprising of synthetic fibers accelerate the sweat moving away from the body. Moisture is thrown away easily by the channels created by the knitting style of the fabric. It is breathable and light; supplies movement ease with elasticity. It has a soft touch. It does not lose its species after being washed because of that it does not have a chemical treatment.

Knitted hoods are designed to protect wearer's head against negative effects of heat and flame. Hood is suitable for all sizes because of its elasticity. It covers whole head, neck and shoulders within upper part of torso. There is a space on the front of the hood for field of view and mask usage. There is enough surface area to use full face mask of respiratory equipment.

Donning of knitted hood;

- *Put on hood and pull head part to the back into the neck.*
- *Adjust the tight fittig.*
- *Pull head part over the head to the frot.*
- *Put helmet on if needed.*





Donning in case of usage of full face mask or respiratory equipment;

- Put on full face mask.
- Put on hood.
- Connect breathing valve or filter.

You can find the measurements and sizes of the garments according to “EN 340/EN ISO 13688 Protective clothing - General requirements” on the table below.

SIZE		WEARER'S			
		LENGTH (cm)	CHEST (cm)	WAIST (cm)	T-SHIRT LENGTH (cm)
S	46/48	164-170	56	46	78
M	50/52	170-176	60	50	80
L	54/56	176-182	64	54	82
XL	58/60	182-188	68	58	84
XXL	62/64	182-188	72	62	86

KNITTED GARMENT TYPES

FYRTEX® HEAT AND FLAME KNITTED GARMENTS				
PRODUCT RANGE	PRODUCT NAME	COMPOSITION	STANDARDS	PHOTOGRAPH
KNITTED HOOD	FYRTEX® FH 50	%50 KERMEL®, %49 LENZING FR®, %1 AS	EN ISO 13911 EN 1149-5	
	FYRTEX® FH 100	%99 KERMEL®, %1 AS	EN ISO 13911 EN 1149-5	
KNITTED UNDERWEAR	FYRTEX® UW 50	%50 KERMEL®, %49 LENZING FR®, %1 AS	EN ISO 11612 A1 B1 C1 EN 1149-5	
	FYRTEX® UW 100	%99 KERMEL®, %1 AS	EN ISO 11612 A1 B1 C1 EN 1149-5	

KNITTED CLOTHINGS CLASSIFICATION AND TESTS

Classification of a garment is done after submitting the performance levels according to given standards in the table below. These test procedures are referred by certification standards required for Ce certification. Certification standards are EN ISO 11612 and EN ISO 13911 European standards.

These test procedures are referenced by standards used for certification.

CERTIFICATION STANDARD	TEST STANDARDS	NAME	LABEL	CLASSIFICATION
EN ISO 11612	EN 340/EN 13688	GENERAL REQUIREMENTS	-	-
	EN ISO 15025	LIMITED FLAME SPREAD	A1	Procedure A is used
			A2	Procedure B is used
	ISO 9151	HEAT TRANSFER-CONVECTIVE	B1	4.0s < HTI24 < 10.0s
			B2	10.0s < HTI24 < 20.0s
			B3	20.0s < HTI24
	EN ISO 6942	HEAT TRANSFER-RADIANT	C1	7.0s < RHTI24 < 20.0s
			C2	20.0s < RHTI24 < 50.0s
			C3	50.0s < RHTI24 < 95.0s
			C4	95.0s < RHTI24
EN 13911	EN ISO 15025	LIMITED FLAME SPREAD	A1	Procedure A is used
			A2	Procedure B is used
	EN ISO 13938-1	BURSTING STRENGTH	-	-
ADDITIONAL PROPERTY	EN 1149-3/5	ELECTROSTATIC PROPERTY	-	-

CLEANING PROCEDURE



Performance level of your garment can be easily affected adversely. Please care to keep the garment clean. Cleaning instructions can be found on the label. Please check the labeling and marking for detailed information.

- Clean your garments in every 6 months at least.
- Contaminated garments will protect the user less in comparison with a clean garment and increase the possibility of electric shocks.
- Contaminated garments can conflagrate easily.
- Do not use bleach or chlorine while cleaning your garments. Garments can be washed in the washing machine (lower spin rate) at maximum 40°C water temperature. Washing time should be maximum 1 hour.
- Detergents in the market might be suitable for washing.
- Garments should be rinsed with cold water.
- Centrifuge drying can be applied before rinsing.
- Do not use fabric softener or conditioner while washing your garments.
- Iron your garments at maximum 110°C.
- Cover the reflective parts with a piece of cloth while ironing the garment.
- Dry cleaning can be applied with normal solvents (preferably perchloroethylene) excluding Trichloride and trichloroethylene. But additional water and/or mechanical stress and/or drying temperature levels should be selected carefully.

STORAGE CONDITIONS



Proper storage conditions reduce the potential dangers and help the garments to be used in safe for longer period.

- Keep garments in their original case.
- Use carton cases during transportation.
- Do not expose to direct sunlight (UV).

- Keep garments in dry and cool environments. Wet and humid environments may cause growth of harmful bacteria, fungus and other organisms.
- Do not store at too hot or cold temperatures.
- Avoid contact with sharp elements.
- During storage, besides keeping in original cases, garments can be hanged out with proper hangers or supports preferably.

EXPIRATION DATE

- Your department or employer can decide when to change your protective garment. If you are not sure when it is time to change your garment, consult your department or employer.
- Life of the garment depends on how it is used, cleaned or stored.
- If accessories of the garment get old, do not use the garment.
- Destroy contaminated garments and contaminators according to local/international standards and regulations.
- Contaminators: blood, blood plasma, toxins, radioactive materials, chemicals and dangerous dangerous materials, etc.

WARNINGS



FYRTEX® garments will not protect you from burning or other possible risks completely. This product may not protect you against extremely hot temperatures, very long exposures to heat and contact to fire.



FYRTEX® garments will not protect you from electric shocks, biological, chemical and radiation which may cause injuries or death.



Multilayered garments may increase your heat stress. Improper usage of people with health problems may face heart-throb, heart attack, dehydration or death.



All closure elements (zippers, buttons, hooks, neck protection) should be closed carefully. Otherwise, this may cause serious injuries or death.



FYRTEX® garments should be checked periodically and also after each wash and use. Make sure that there is no damage on the garment.



If chemicals and flammable liquids contaminate the garment, it should be removed immediately and cleaned properly if the garment is undamaged.



Damaged, contaminated, torn garments must not be used again and must be replaced.



FYRTEX® protects when used in conformity with the instructions.





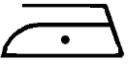











The user/employer is responsible of choosing the right protective garment.

LABELLING AND MARKINGS

FYRTEX® garment labels are detailed. If proper conditions are provided, as it is instructed in the label, garments could be used safely for a longer period.

Warnings of the symbols included in the label;

	It shows that the garment is suitable for use by industrial workers on the basis of EN ISO 11612.		It shows that the hood is suitable for use by the firefighters on the basis of EN 13911 conditions.
	The product complies with 89/686/PPE Personal Protective Equipment directive		Bu piktogram kullanıcının kullanım klavuzunu okuma gerektiğini ifade eder.
	Iron at maximum 110°C degree. Close the reflective parts with a cloth.		Product has electrostatic property according to the standard EN 1149.
	Centrifugal drying may be applied.		It can be washed inside the washing machine at max 40°C water temperature less than 1 hour. The machine cycle must be slow (delicate), and it must be rinsed with cool water.
	Do not use chlorine during the cleaning of the garment.		Dry cleaning may be applied by using normal solvents except trichloride and trichloroethylene (Preferably perchloroethylene). However special attention must be paid to the parameters such as water addition and/or mechanical stress and/or drying temperature.
	Breathable		Flexible
	Dry fast		No odor