

# Technical Data Sheet Firefighter Garment XENON



Xf2  
Xr2  
Y1  
Z2



FM 579987



EMS 579988



This garment is suited to structural firefighting, external firefighting and rescue activities during emergency response and training operations.

The most balanced structural firefighters suit:

- Heat Management System for hot weather conditions
- Body Sweat Management System
- Light weight
- Excellent UV protection
- High safety factor in protection against petro and other chemicals
- Full Motion – great fit and wear comfort

Each region has their own conditions, and we have concluded in the best protection and comfortable solution, joined with best price for desert weather conditions.

## XENON FIR336-A (Jacket) & FIR337-A (Trousers)



# Structural construction of XENON

- Best comfortability level due to high % of viscose
- High absorbstion for sweat
- Increased breathability - Air flow due to vertical Kevlar 3D stripes- heat get easier out of the suit

Thermal lining  
Kevlar strip 200g/m2

34.5% para aramid / 33.5% Viscose FR  
/ 32% meta aramid

Retro reflective sew on tape  
3M Flame retardant sew on tape -  
50mm wide

- Best for hot environments
- Keep the body dry by allowing perspiration to escape
- Remain cool during tough operations.

Outershell  
Gold Nomex NXT 195g/m2

75% Nomex / 23% Kevlar  
/ 2% antistatic

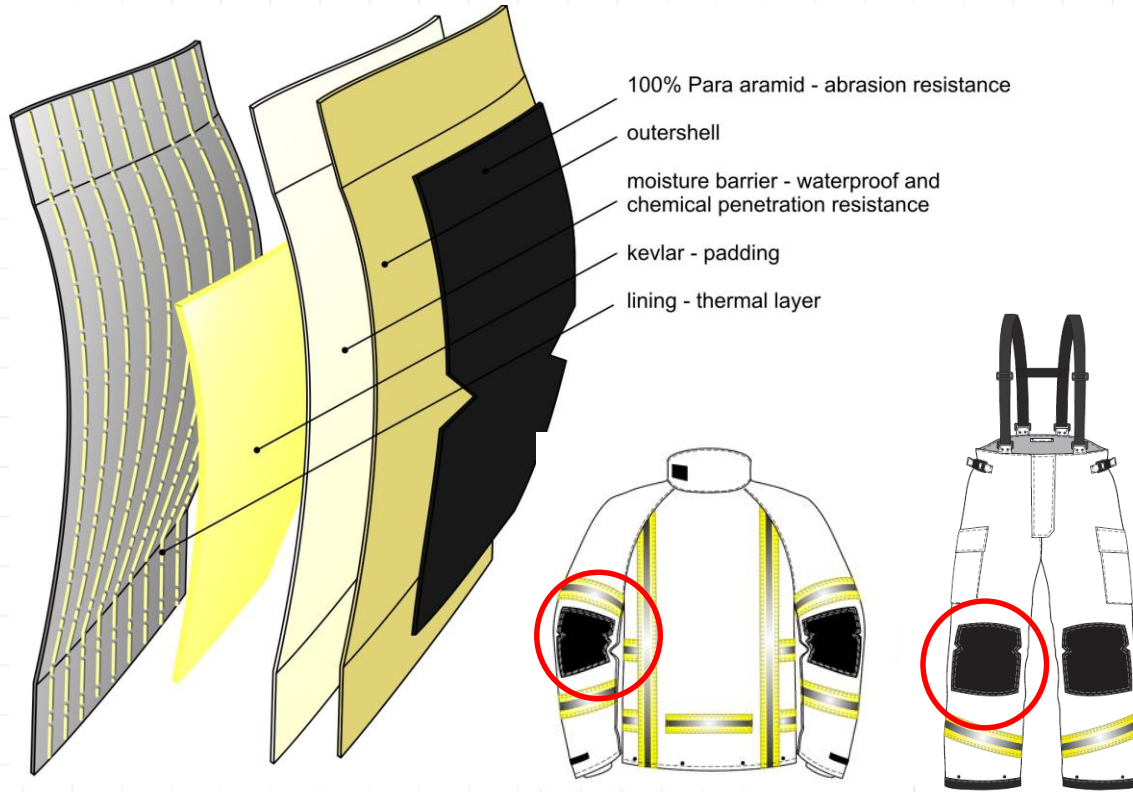
Moisture barrier  
89/52 PU FR 135g/m2

42% meta aramid / 30% PU FR  
/ 28% para aramid

- Top weight for hot environment
- Best finishing to avoid liquids and quimicals – keep user dry and protect
- Stable for UV waves
- High durability due high % of Nomex fiver
- High colour fastness

- PU-membrane chosen for countries with hot temperatures as the most breathable material regarding membranes
- Best moisture management for hot enviroment

# Structural construction of XENON ECO 2 pieces Garment



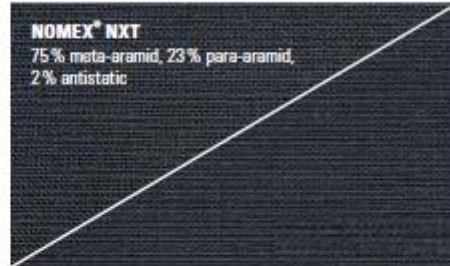


# Outershell for XENON FIR336-A (Jacket) & FIR337-A (Trouser)

## NOMEX® NXT OUTER MATERIAL

With the new NOMEX® NXT the reliable NOMEX® Outershell Tough quality was improved both technically and visually:

- ✓ longer service life thanks to extremely high tear resistance
- ✓ outstanding visual appearance even after many washes thanks to intelligent fabric construction
- ✓ new, innovative design
- ✓ maximum wear comfort thanks to low weight
- ✓ with PowerShell finish even after 40 washes without reimpregnation DIN EN 469 compliant



The innovative PowerShell technique:

- High levels of petrol & chemical repellence
- Longterm protective properties completely without any chemical-based post-impregnation
- High UV resistance due to UV inhibitor system



# Innovative Reflective Material of XENON ECO FIR336-A (Jacket) & FIR337-A (Trousers)

3M™ Scotchlite™ Reflective Material – Series 5600 Fire Coat Comfort Trim

See the design, feel the comfort.



## **Stitch-free design.**

Stitch-free design means no fabric edges to snag or slow firefighters down.

## **Significant breathability.**

Due to the segmentation the trim is much more water vapor permeable than other reflective trims on the market.

## **Maximum flexibility.**

Flexible and less constricting for easier movement, especially in tight spaces.

## **New design.**

New segmented look for innovative design opportunities.

## **Light and bright.**

Reflective technology from 3M provides excellent reflectivity in low light and nighttime conditions to help keep firefighters safe and seen.

It's not a fabric. It's not a tape. It's not stitched on. It's an integral part of your turnout gear. Partner with 3M to create a new innovation story. It has the best traits of any fire coat trim that 3M has ever made.

New 3M™ Scotchlite™ Reflective Material – Series 5600 Fire Coat Comfort Trim doesn't just change the way firefighters look, it helps keep the body dry by allowing perspiration to escape so they remain cool during tough operations.

It's durable and stitch free for lasting protection and may reduce maintenance. And best of all, it's 3M™ Scotchlite™ Reflective Material, so you know it will help keep them visible and protected day after day, call after call.



## Jacket XENON ECO, FIR336-A

1. Long in ease of movement. Under arm gussets are incorporated within the jacket to allow free movement of the arms without the jacket "riding up"
2. An internal rubber strap that prevents hot air and flame from entering below.
3. The fire coat is made of flame-resistant material and coated with a material to prevent water leakage or waterproof.
4. It consists of three layers, the first is NOMEX, the second is heat insulating, and the third withdraws sweating.
5. Arms secure ease in the movement that ends in a knot at the wrist.
6. Left hand side radio pocket and right hand side torch loop attachments on the front chest area
7. Jacket contains 2 concealed map pockets under the storm flap (protected).
8. High quality zipper in front and covered with the same layers of the jacket.
9. Yellow reflective strip with a width of 5 cm, surrounding the jacket from the bottom and the ends of the arms.
10. Must be written on the upper back of the jacket (civil defense) الدفاع المدني with Phosphorus and in gray color.
11. The inverse zone is strengthened to reduce the effects of injury. Anti wicking barrier attached to internal liner at body and sleeve hems



### Assembly:

Outershell :	NOMEX NXT
Membrane:	Proline 8952 (PU)
Inliner:	Spacer Aramid/Viscose FR
Reflective strips	3M
Sizes:	XS, S, M, L, XL, 2XL
Colour available:	gold, navy blue, black, red



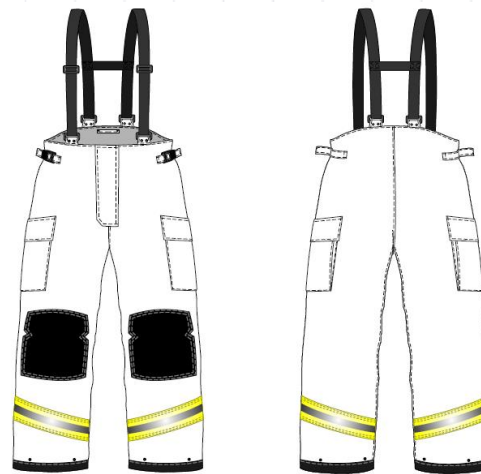
## Jacket XENON ECO, FIR336-A





## Trouser XENON ECO, FIR337-A

1. Provides ease of wear and movement. Fullness built into the knee area to provide room exactly where needed when bending
2. It is made of flame-resistant material and coated with a material to prevent water leakage or waterproof.
3. The knees are strengthened to reduce the effects of injury. Kevlar® knee pads for additional comfort and protection during crawl situations. Specifically designed to increase the mobility of the knee.
4. It contains yellow strips and a 5-cm-width reflector around the legs.
5. It consists of three layers, the first is NOMEX, the second is heat insulating, and the third withdraws sweating.
6. Fly front opening for quick donning. Heavy-duty zip and flap closure with Velcro for secure fit
7. Two side bellow pockets with Velcro flap
8. Heavy-weight adjustable braces with side release buckles for a secure and comfortable fit
9. Part elasticated waist gives an excellent fit
10. The colour is dark blue.
11. Abrasion resistant fabric around leg hems and inner legs for added durability



### Assembly:

Outershell :	NOMEX NXT
Membrane:	Proline 8952 (PU)
Inliner:	Spacer Aramid/Viscose FR
Reflective strips	3M

Sizes:	XS, S, M, L, XL, 2XL
Colour available:	gold, navy blue, black, red



## Trouser XENON, FIR337-A



OPTIONAL -  
COMFORT BRACES



# CE – Label

## Data and information label

# User Information Sheet

# Labeling

PART  
1



**BALLYCLARE**  
LIMITED

Tel: +44(0)8444 932 809 Fax: +44(0)8444 932 801  
www.ballyclarelimited.com  
e-mail: info@ballyclarelimited.com

By Agreement to  
the Ministry of Defence  
Supplier's Certificate  
of Approval  
Supplier

Date of Manufacture:

XS  
XL  
XXL

CE 0086

BS EN 469:2005 / A1:2008 + AC:2006 PRODUCT CODE: FR336  
BS EN ISO 15686:2013 ORDER NO:  
DIRECTIVE 89/686/EEC CE NO:

Should the structural integrity of this garment become seriously  
impaired it should be replaced.  
Excessive removal of contaminants may reduce the  
performance of the fire retardant properties of this garment.  
The inherent flame-retardant properties of this garment are not  
reduced by repeated washing when following the correct  
procedures.

40

Wash at no more than 40 degrees, do not use bleach, do not  
use soap use detergent only  
CLEAN WITH ALL CLOSURES FASTENED  
DO NOT IRON REFLUTE FIRE TAP

IN ORDER FOR THE COMBINATION TO CONFORM TO  
EN 469 THE TUNIC MUST BE WORN WITH A COMFORTABLE  
OVERTROUSER

NAME:  
NUMBER:


CE NUMBER

Notified Body 0339, BTTG Fire Technology services, Trafford Park, Manchester, M17 1EH

ORDER NO: 00067547 CE NO: 1234567890

000675471234567890

PART  
2



The Forum, Hercules Business Park, Bird Hall Lane,  
Cheshire Heath, Stockport, Cheshire SK3 0UX,  
Tel: +44 (0) 161 412 0000 Fax: +44 (0) 161 412 0001  
e-mail: info@ballyclarelimited.com

PRODUCT CODE: Tunic FR336  
Overtrouser FR337

**Compliance**  
This garment is intended for use as Protective Clothing for Fire Fighters. It bears the CE mark to  
demonstrate compliance with EC Directive 89/686/EEC for Personal Protective Equipment  
reference Annex 11 H & S requirements.

Notified Body 0339, BTTG Fire Technology services, Trafford Park, Manchester, M17 1EH.

XS  
XL  
XXL

CE 0086

**Fabric Assembly:**  
Outer - 75% Nomex / 23% Kevlar / 2% Aramid, 195gsm  
Moisture Barrier - 60% Metabond / 30% PU / 10% Pararamid  
Thermal Barrier - 33% Pararamid / 33.5% Viscose FR / 33.5% Kevlar Garde Noir  
The level of protection outlined within BS EN 469:2005 is achieved through the use of a multi layer clothing assembly  
& to meet the requirements of BS EN 469:2005 a conforming Tunic and Overtrouser must be worn together (for clear  
reference an assembly includes both Tunic and Overtrouser).  
The FR336 Tunic and FR337 Overtrouser have been designed to offer BS EN 469:2005 level 2 protection whilst worn  
without undergarments.

**Wearer Advice**  
The concept of fire fighters clothing protection is based on the use of layers of fabric and sometimes additional  
padding. Training & fire fighting practices may differ by location but as a minimum the fire fighter needs to  
be trained by qualified personnel to recognise the following:  
Choosing the correct size garments.  
Correct donning of garments.  
Compatibility with other PPE items (e.g. helmets, gloves & boots).  
Which clothing is appropriate for each particular application? (i.e. A need for additional protection against  
specific risks).  
Has the clothing reached its operational limit and what action needs to be taken?

Always wear the tunic with the zip fully fastened and ensure that the cuff and collar closures are secured to  
create a good interface with other PPE items.

**Limitations of Use**  
This assembly (Tunic & Overtrouser) is intended for fire fighting use & provides protection from the neck to the wrist  
and ankles only.  
Additional PPE clothing & equipment will be required to protect the head, feet and hands from the effect of heat and  
flame.

**Product Care**  
This garment is fully Washable.  
It is possible that certain garment damage can be repaired using the same inherently flame retardant materials used  
in original manufacture.  
Inadequate removal of contaminants may drastically reduce the heat and flame protection offered.  
Regular checks for contaminants are essential. In the event of accidental splash of chemical or flammable liquids on  
this garment, the wearer should immediately withdraw and remove the garment, which shall then be cleaned or  
removed from service.  
Garments must be bagged quarantined and professionally laundered if they become contaminated with blood or  
organic staining.

**Laundering**  
It is likely these garments will be exposed to a number of unknown contaminants in operational use.  
There is a possibility of damage / loss of performance if incorrectly washed or dried.  
Consequently these garments should NOT be Home Laundered.  
Therefore these garments SHOULD be Professionally Cleaned.  
SEE GARMENT LABEL FOR WASHING INSTRUCTIONS.

**Storage**  
Always store in clean dry conditions.  
DO NOT store in wet or damp conditions  
DO NOT store in direct sunlight  
All garments should not be stored in the original packaging for more than 3 years.

Recommendations for storing garments from new or garments that have been stored in original packaging for up to  
3 years:  
- Hang garments covered (not in transparent bags) and out of direct sunlight in a well-ventilated area.  
- Where this is not practical, we would recommend removing the garments from packaging, carefully place on  
shelves and cover with air permeable fabric, dust sheets or ventilated dark coloured bags in well-ventilated areas.  
- Increasing the ventilation around the garment is most desirable.  
- Remove from black plastic bags, re-bag carefully and store in ventilated cardboard boxes,  
(store user information sheet and black plastic bag with garment).

**Innocuousness**  
To the best of our knowledge the materials components utilised in the manufacture of these garments do not contain  
any substances that are known to adversely affect user hygiene of health.

**Garment Disposal**  
This garment is suitable for disposal via landfill sites in accordance with European Standards.

**Available Sizes: The following are Wearer Measurements**

	Short	164-172cm / 5'5" - 5'8"	Inside Leg 73cm / 29"
	Regular	172-180cm / 5'8" - 5'11" <td>Inside Leg 78cm / 31"</td>	Inside Leg 78cm / 31"
	Tall	180-188cm / 5'11" - 6'2" <td>Inside Leg 83cm / 33"</td>	Inside Leg 83cm / 33"

Tunic	Chest	Overtrouser	Waist
X-Small	84-92cm / 33-36"	X-Small	68-76cm / 27-30"
Small	92-100cm / 36-39"	Small	76-84cm / 30-33"
Medium	100-108cm / 39-42"	Medium	84-92cm / 33-36"
Large	108-116cm / 42-45"	Large	92-100cm / 36-39"
X-Large	116-124cm / 45-49"	X-Large	100-108cm / 39-42"
XX-Large	124-132cm / 49-52"	XX-Large	108-116cm / 42-45"
XXX-Large	132-140cm / 52-55"	XXX-Large	116-124cm / 45-49"
XXXX-Large	140-148cm / 55-58"	XXXX-Large	124-132cm / 49-52"

## Customer Label

BAR CODE

ID Number

Station Number

SIZE

SR NO

## Garment Bag Label

**Ballyclare Limited.**

**Product Code:**

**Description:**

**Order Number:**

**Size:**

**Date of Manufacture:**

## XENON FIR 336-A, FIR 337-A

Our 70 years of experience developing, manufacturing, maintaining and being close with customers has given us the expertise to know exactly how to develop and construct our structural suits in order to have the best durability and comfortability, always protecting the user with high performances under EN 469 level II protection, and always adapting our suits to the users demands.

