Flame Retardant

Nomex® Fire resistant particle barrier firehood with DuPont Nomex® NanoFlex™ membrane for firefighters

Material: Nomex® Comfort / Nomex® Nanoflex

Article: 8329-22260-58 Paris Blue

- Permanently flame-retardant, non-melting and non-dripping, compliant **EN13911**
- Protection against nanoparticles
- Permanently hydrophilic with excellent moisture management and fast drying
- Antibacterial treatment
- Pigmented colors for highest color fastness to light, laundry, sweat, friction and chemical cleaning
- Ergonomic fit with attached Pellerine for better hold under the jacket
- Flat seams to avoid pressure points
- High stretchability rubber in the field of vision for optimum fit and hood function

FUCHSHUBER TECHNO-TEX GMBH • Wilhelmstr. 160-164 • D-72805 Lichtenstein
Tel.: +49 (0) 7129 - 69 15 - 0 • Fax: +49 (0) 7129 - 69 15 - 15 • E-Mail: info@fttex.com • Web: www.fttex.com

FUCHSHUBER TECHNO-TEX

HERSTELLUNG TEXTILER HOCHLEISTUNGSARTIKEL

FÜR KÖRPERSCHUTZ UND ZUR TECHN. ANWENDUNG

Declaration of conformity

with the essential requirements of Regulation (EU) 2016/425

The manufacturer

Fuchshuber Techno-Tex GmbH
Wilhelmstrasse 160-164
72805 Lichtenstein

hereby declares that the following product

Product name: Fire hood

Article number: 8329-22260

complies in its design and manufacture as sold by Fuchshuber Techno-Tex GmbH with the essential requirements of Regulation (EU) 2016/425.

The notified body STFI e.V. NB 0516 has issued the EU type examination certificate No V0230/18-0213/19. It is suitable in accordance with EN 13911: 2017 as a protective cover for the fire brigade. The fire hood is subject to the following conformity assessment procedure: Module C2 under the supervision of the notified body STFI e.V. NB 0516 Saxon Textile Research Institute (STFI), Annaberger Strasse 240, D-09125 Chemnitz,

Scope of application:

Fire hood with particle protection to be worn with protective clothing, breathing apparatus and helmet.
The design features and performance requirements of the hood serve to protect the head and neck against the effects of heat and flame. Fire hoods can be used for a variety of purposes, both above and below the respirator, and for various types of helmets.
Personal protective equipment to protect against short-term contact with flames, radiant heat, or the interaction of these hazards.

The fire hood is made of two layers Nomex® Comfort with a permanent antistatic component. The knitwear is permanently flame retardant unless the knitwear is adversely affected by combustible soiling.
In addition, a third layer of Nomex® NanoFlex membrane is incorporated as an intermediate layer, which serves as particle protection. The Nomex® NanoFlex membrane behaves like a filter that reduces the exposure of persistent carcinogens and other pollutants released at the scene of fire to firefighters.

The fire hood is part of a fire-fighter protective clothing and serves to protect specific body regions (head and neck area) of firefighters during various types of firefighting operations.
Compatibility with other types of protective clothing is the responsibility of the user and may need to be re-examined.

Description of the specific design features

The protective cover has been designed in accordance with DIN EN 13911: 2017-11 protective clothing for the fire brigade and is also compliant with the requirements of the new PPE regulation of the European Union (REGULATION (EU) 2016/425).

Raw materials

According to the state of the art, in the selection of the fiber materials for the fire protection hood inherently flame-retardant fibers are used. In order to counteract permanent flame retardancy in terms of multiple uses / washes, good heat insulation properties and a possible heat accumulation of the carrier or to give permanent antistatic properties of the fire hood, the following fibers are combined in the basic material of the protective hood.

1.) Meta- and para-aramid fiber blend (Nomex® Comfort, DuPont®).
As a non-melting, inherent FR fiber, the Nomex® Comfort protective cover is responsible for the main performance / basic structure in terms of flame retardancy. By using comfort fibers produced by a finer count, comfort is enhanced by the soft aramid fiber component in the sensitive area of the face for the wearer. The content of Kevlar® (para-aramid) prevents it from a break open during a flame.

2.) Carbon fiber
By using the hard-to-burn, non-melting and permanently conductive carbon fiber, an antistatic charge of the hood is counteracted. This counteracts the use of a possible ignition of flammable or explosive gases, liquids, mixtures or dusts by so-called sparking in the environment of the wearer.

3.) Nomex® NanoFlex (100% Polyimid)
Serves as a particle protection produced by non-woven technology from submicron continuous fibers. The membrane is completely breathable and very light. The Nomex® NanoFlex membrane behaves like a filter that reduces the exposure of persistent carcinogens and other pollutants released at the scene of fire to firefighters.

4.) Sewing thread:
Meta-aramid

Textile surface formation

In order to take the various head shapes of the wearers into account, different helmet shapes and the use of the fire protection hood under respiratory protection EN 137 resp. heavy respiratory protection EN136, the different fibers were flexibly knitted together as knitwear with a weight per unit area of 180 g / m² and finished in two layers.
In addition, a third layer of Nomex® NanoFlex membrane is incorporated as an intermediate layer. The highly flexible knit fabric can adapt to the various shapes without lowering the protective functions or the physiological wear profile when worn / during mission. Likewise, the fabric is quiet, which does not limit the wearer's hearing

Ready-made clothing

By ergonomic design the visual field of a possible visual impairment of the wearer is counteracted; this at the same time with maximum protection of the head and neck.
Due to the flexible design of the textile fabric, the fact is considered that the protective hood rests as close as possible and without folds on the head and neck without hindering the wearer. As a result, even slipping of the hood in use is largely avoided. In addition to the soft Nomex® Comfort staple fibers, a comfortable fit is also ensured by flat-fitting or flatlock seams, which are also made with FR-protected sewing threads.

Proof of the required performance

The protective cover is made of 100% Nomex® Comfort with permanent antistatic component and one layer of Nomex® NanoFlex membrane. The knitwear is permanently flame retardant, unless the knitwear is adversely affected by combustible soiling.
The individual fiber components are known flame retardant, but in a textile PPE always the entire system must be checked. That's why the whole hood was examined according to EN 13911: 2017 "Protective clothing for the fire brigade". And according to EU-Type Examination Certificate No. V0230/18-0213/19, it also complies with the requirements of the new PPE Regulation of the European Union (REGULATION (EU) 2016/425).

Practical experience

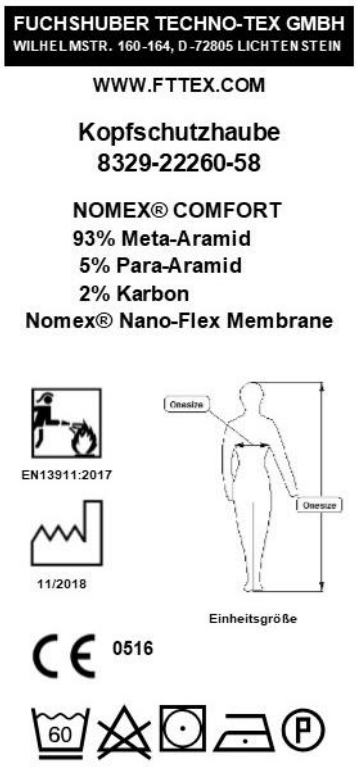
The long-term use of flame protection hoods made of Nomex® in practice and wearing tests confirm that the performance profile meets the requirements.The addition of a particulate filter is new but offers additional protection.
In no single case, there were complaints from customers / emergency services, especially in terms of protective effects.

Regular quality checks:

Regular checks in the context of quality assurance confirm a constant quality of the protective hood.
The protective cover is used in conjunction with product monitoring according to module C2 by the STFI NB 0516.

Textile labeling

93% meta-aramid, 5% para-aramid, 2% carbon, Nomex® NanoFlex membrane



Place: Lichtenstein,
Date: 20.02.2019

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(signature)