



Firefighter protective clothing

EAGLE

Type No: 1826-692

3rd category of Personal Protective Clothing

PRODUCER:



your smart solution

www.deva-fm.cz

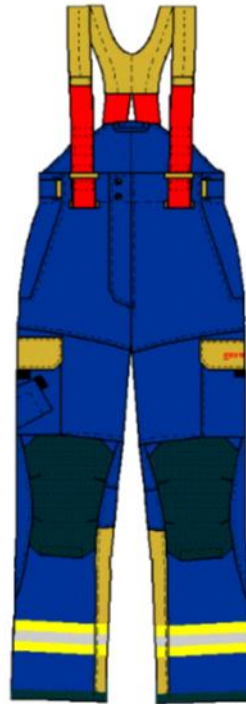


PREMIUM design:

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Description of used materials and their technical parameters:

- Outer material: **1826 – GA001 ARAMIDE FUTURA – 210 g/ m2**
(93% Meta Aramid, 5% Para Aramid, 2% PA Antistatic), Sofiguard[®]
- Membrane: **FLAMELINER G 2L – 170 g /m2**
(face – 50% Aramid / 50% Viscose / back –bikomponent membrane based ePTFE)

Additional material:

Anti wicking barrier: FR FABRIC 107 529
Reinforcement: art. 81400 BOROLON, alternatively F1312 BI-Si 100% kevlar
Padding: mikrop. ADI-CR - neoprene
Sewing: N-tech CS 70
Velcro: Alfatex, colour: black, FR
Zipper: MGOR-106 YKK
Cuff: 7115/2&2 – Cuffing
Heat transfer: 3M[™] Scotchlite[™] 8787 - yellow or 3M[™] Scotchlite[™] 8725 - silver

Reflective materials: 3M[™] Scotchlite[™] 9687 (yellow-silver-yellow)
3M[™] Scotchlite[™] 5697 (segmented, yellow-silver-yellow)
3M[™] Scotchlite[™] 5535 (segmented, silver)

Design: jacket + trousers



Clothing impregnation:

- Top material is equipped by a sufficient impregnation **Sofiguard**® that secures protection against water and chemicals. The producer of the material guarantees **min. 5 cycles** before additional re-impregnation when the laundering instructions are followed.
- Impregnation efficiency in real conditions may differ from the measured laboratory results and is influenced by several factors.
- Keep your garment clean.
- **For recovery of the treatment we recommend additional drying in the tumbler at temperature 70 °C for 15 minutes !** Perform the additional drying on closed garment from the face side after each maintenance (washing + drying).

Additional re-impregnation after 5 maintenance cycles:

If additional re-impregnation is applied during maintenance of the garment by a professional laundry or authorized person, the protection against water and chemicals is not subject to the manufacturer's guarantee.

Clothing protective function and the complete list of harmonized standards used when designing this PPE:

This clothing is used as a firefighter's body protection during fire liquidation and related tasks (rescue work, emergency assistance) with the exception of interventions in enclosed areas (lower level of technical use – level 1) and when chemicals or gases are present (it only allows for accidental spraying with chemicals or flammable fluids).

This protective clothing protects both the upper and lower body parts, including a neck, arms up to wrists, and legs up to ankles. In combination with other protective equipment, such as a helmet, gloves, a face-guard, and boots, it provides firefighters a complex protection from hazards stipulated in applicable standards:



ČSN EN 469:2015/A1:2015/Opr. 1:2015
(EN 469:2005/A1:2006/AC:2006)

-Protective Clothing for Firefighters – Technical requirements for protective clothing for firefighters



Level of protection – achieved effectiveness of protective clothing

Heat transfer - flame	level 1
Heat transfer – radiation	level 1
Resistance to water penetration	level 2
Water vapour resistance	level 2

level 1 – lower level of technical use (technical intervention – rescue work, emergency assistance)

level 2 – higher level of technical use (fire fighting in closed place)

EU – Declaration of conformity: www.deva-fm.cz/ - products-instruction

Clothing service life

Duration of the protective clothing using is not fixed. Expected service life is within the range from 4 to 7 years in case of average utilization. It is protective clothing which means that it can be damaged during some working activity. In such case the following steps have to be done:

- Clean the clothing according to the instructions
- Ensure skilled revision of the clothing by a responsible person (producer, skilled distributor, or skilled person of a particular fire station)
- In case of need repair it (to ensure safety the clothing should be repaired at the PRODUCER or a trained person)
- In case of excessive damage and failure of the protective properties of the clothing when the repair is not worthwhile, we recommend to put out of use



Maintenance:



- Maximum wash temperature set at 60 °C with reduced mechanical action
- We recommend delicate washing at 40 °C. Temperature of 40°C is suitable as well for very dirty clothing.
- All closures (zippers, press buttons, velcros, buttons, carabines) must be properly closed to avoid abrasion
- Before washing and drying is necessary to **remove neoprene knee pads and braces!**
- PH of washing bath must not be higher than 9.
- Do not use detergents with bleaching effects.
- Optimal level of machine loading is 2/3, with maximum possible water level and lower spinning speeds.
- If the garment has removable insert, always wash the outer parts separately from inserts. If inserts are not soiled, remove them and wash just the outer parts to prevent unnecessary wear of moisture and thermal barrier.
- Do not use any softeners!



- Line dry is optimal
- Using a tumbler dryer, dry at higher temperature. We recommend drying in two cycles (face and back sides) 2 x 45 minutes.
- A dryer should be filled at 2/3 of its capacity. (f.e. for drum of 13 kg put dry garments with weight of 10 kg)
- If the garment is damp, we recommend to hang it to dry
- **To recover the treatment we recommend additional drying at 70 °C for 15 minutes!!** Perform the additional drying on closed garment from the face side after each maintenance (washing + drying).



Iron at maximal temperature 110 °C, carefully with steam.



- No bleaching is allowed.



- The clothing may be dry-cleaned using tetrachloroethylene, monofluorotrichloromethane, and all solvents specified under the F symbol. The common cleaning procedures have no restriction.



- Professional wet cleaning. Ordinary cleaning procedures.

Finally we would like to draw your attention to a fact that **ARAMIDE FUTURA** material is as other chemical materials sensitive to direct daylight. To eliminate mechanical and visual abrasion of the outer material of the garment it is essential to observe right laundering procedures, eventually timely done re-impregnation. We are absolutely convinced that the most sensitive part at laundering is the time, the temperature and loading of the washing and drying process. We can say that excessive temperature and over drying can result in excessive shrinkage.

We absolutely recommend keeping an evidence list of the clothing service and maintenance (Appendix 1 – see our web pages)

Decontamination (Disinfection) :

- Intervention clothing infected by biological material must be treated with hydrogen peroxide and peracetic acid-based concentrates activated during machine washing.
- Do not use chlorine-based products.
- Recommended disinfection agents are suitable for white, as well as colour textiles, except wool and silk. Their utilization is in accordance with European microbicide standards EN 1650 and EN 14476.
- Disinfection agents are effective at 40 °C and a longer washing cycle of at least 20 minutes.
- The exact dosage will be specified by your chemicals supplier based on the intervention clothing types.



For medium to highly contaminated protective garment by oils, petroleum, paints, and biological substances (proteins, blood etc.) we recommend to entrust the maintenance to a professional laundry.

Washing and decontamination agents that can be used for intervention clothing are in the chart below:

Detergent Producers	Washing detergent	Disinfection	Impregnation	Wet cleaning
Burnus Hychem	Sensolan	Sterisan	Hydro stop	Lavaplex Basic
Kreussler	Derval Energy Derval Rent	Ottalin Peracet	Hydrob FC	Lanadol Activ
Ecolab	Sericol Turbo Plus	Ozonit	Saptir protect plus	Usona Liquid S
BÜFA	Oldopal MWB Ozerna Care	Lizerna Ox	Terasit Lotus	Oldopal MWB

Storage:

- ✓ Storage has no specific requirements
- ✓ Protect the clothing from direct sunlight and UV radiation

Clothing protective packaging:

- ✓ PE bag, cardboard

User notification:

EN 469: 2005/A1 – level 1

- In compliance with EN 469 requirements, the lower and upper body parts, including a neck, arms to wrists, and legs to ankles are protected and covered by the clothing; however, the other body parts are not protected and other equipment items are necessary to achieve the complete protection.
- In case of accidental soiling with a liquid chemical or flammable fluid when using in the environment with the excessive risk of exposure to fire and/or heat or when under excessive heat load when heat is strongly felt on skin, it is necessary to immediately retreat and remove and clean the clothing, or decommission it if necessary.

USER'S INFORMATION



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Identification of the Notified Body that performed the EU type examination:

Notified Body no. 1023, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic
The product meets the REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL.