



FIRE FLEX

Protective suit certified according to EN 469,
EN 1149-5, EN 61482-2, EN 343, and EN 14360.

Professional protection. Perfect fit.

 **rosenbauer**



PPE from

Experts in PPE

Rosenbauer is known as the market leader for firefighting vehicles. But few know this:

Rosenbauer also makes professional clothing, boots, and is a pioneer in the development of firefighting helmets. Unique know-how and an all-encompassing solution portfolio enable modular offerings that ensure safety and comfort in every situation. The flexibility and versatility of a system supplier and the innovative power of a manufacturer who develops and produces the complete PPE in-house - this is what makes Rosenbauer unique.

Rosenbauer





FIRE FLEX.

The protective suit for uncompromising lifesavers.

Only those who can rely 100 % on their material are able to keep a cool head and act correctly in a dangerous situation. The mission is clear: a firefighter's suit must fit like a second skin and offer extensive, armor-like protection.

When every second counts, well thought-out details and intelligent features make all the difference.

Maximum protection and optimum wearing comfort are standard at Rosenbauer. Now a protective suit has been designed that fits perfectly. Practical details add even more flexibility, and sophisticated features turn a high-end protective suit into a modern all-rounder for every situation.

With the FIRE FLEX, you get the most sophisticated protective suit on the market.

Ergonomic - utmost emphasis was placed on the ergonomic cut and the perfect fit in all sizes and lengths.

Flexible - the material, the careful workmanship and the perfect fit create freedom of movement during operations, without resistance and without restriction.

Innovative - sophisticated features developed by experts facilitate intuitive handling on site.

Extremely comfortable protection.

Tailored protection.

Triple, uncompromising protection

When a new protective suit is designed, the focus is primarily placed on the three greatest dangers of extreme use: heat transfer, waterproofing, and resistance to water vapor permeation. In these three areas, the highest level of protection is achieved in all categories.



High-tech from Rosenbauer

Rosenbauer protective suits have always offered maximum impermeability to viruses and bacteria. For Rosenbauer, this feature for the protection of emergency crews is not only a matter of course, but also a significant competitive edge.

Best wearing comfort through Ergocut.

The perfect cut has a name: Ergocut. This precise fine-tuning of the fit offers maximum wearing comfort. Rosenbauer does not regard a comfortable cut as an optional extra. At the end of the day, fit and comfort give emergency crews greater freedom of movement, and are therefore essential safety aspects. If the finely tuned standard sizes are not suitable for the customer, a customized body size can also be manufactured when necessary.

Those who rely on functionality don't have to miss out on a modern and active cut and design. The FIRE FLEX protective suit is a maximum breathable all-rounder made of innovative materials that leaves nothing to be desired.





Certified according to:

- EN 469:2020
- EN 1149-5:2018 (antistatic test)
- EN 61482-2:2018 (arc fault test)
- EN 343:2019 (protective clothing for rain)
- EN 14360:2004 (rain test)



EN 469:2020

X2
Y2
Z2



IEC 61482-2:2018 APC 2



EN 1149-5:2018



EN 343:2019

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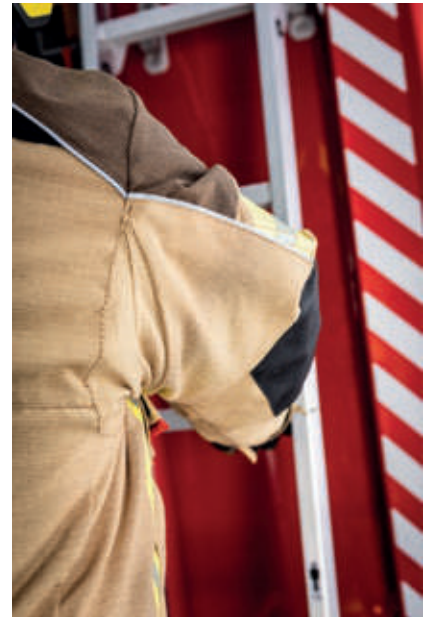
Thermo-Man®

*Certified in the highest
levels of protection,
e.g. EN 14360:2004
(rain test).*



Dedicated to comfort.

Committed to safety.



Designed for long-term operations.

An optimal cut is not something that is plain to see. Only long operations reveal whether a cut lives up to its promises. The new FIRE FLEX has been designed to impress: on the job, no matter how long it takes.

Flexible

Combining the best possible protection with optimum wearing comfort is one of the greatest challenges. The FIRE FLEX not only offers a modern, sporty look, but also affords freedom of movement without restrictions in everyday firefighting situations. Improved sleeve cuts and a special shoulder-arm construction guarantee enormous mobility. The collar has also been adapted to the natural head posture and sits optimally without constricting during longer periods of use. Thanks to a new application technique, the reflective stripes offer maximum freedom of movement combined with high breathability.

Innovative

All activities and actions performed on-site by the emergency personnel must be as intuitive as possible. FIRE FLEX supports this with ergonomically designed features. Padded grip pieces on the flaps of the pockets and the zipper make it easier to grasp safely; versatile pockets and fastening devices offer countless possibilities at the scene of the emergency. The segmented strips used for improved visibility have been covered over and integrated into a sophisticated overall concept. These are patched instead of sewn on and are thus not only more flexible, but also more breathable.

Due to the absence of seams, there is no abrasion load on the material. Robust absorption barriers at all critical points prevent moisture from penetrating through to the inside of the protective suit. In particular, a completely new, breathable 3-layer absorption barrier material is used for the sleeve hem and front trim. A smooth-running panic zipper made of special plastic remains fully functional even if the teeth are slightly damaged.



Ergonomic

In an emergency, the fit can also be critical. With the FIRE FLEX, we have succeeded in designing an ergonomic protective suit. It must withstand moisture, cold, heat and fire - in terms of safety, the Rosenbauer brand has always set the highest standards. However, the FIRE FLEX manages to guarantee the highest degree of agility thanks to its revolutionary Ergocut. A feeling like a second skin, without compromising safety.

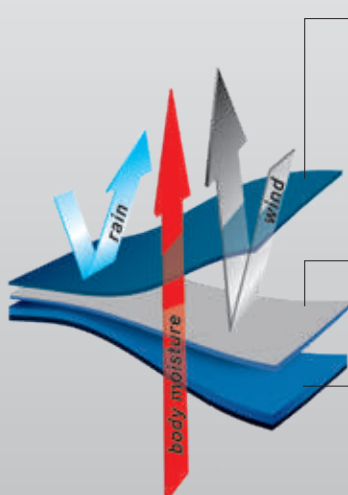


New design elements, segmented reflective stripes, and the two-tone color ensure optimum visibility and a modern look.

FIRE FLEX with NOMEX® NXT outer fabric



Proven 3-layer fabric construction in proven composite



Outer fabric

NOMEX® NXT

Weight:
approx. 195 g/m²
Colors: black-blue/red,
black-blue/gold,
black-blue, gold

NOMEX® XTR

Weight:
approx. 195 g/m²
Colors: black-blue/red,
black-blue/gold,
black-blue, gold, red

X55 with PBI

Weight:
approx. 205 g/m²
Color: gold/brown

Moisture barrier (liner)

3D PTFE membrane made of melamine resin
fiber/aramid carrier. Surface weight: approx. 125 g/m²

Safety thermal lining

Melamine resin fiber/aramid fleece with quilted cover made of
aramid/viscose blended fabric. Weight: approx. 180 g/m²

High-performance materials.

For high-performance at the scene of the emergency.

There is no question that only the best materials are used for Rosenbauer products. The secret of the FIRE FLEX, however, lies above all in the composition and structure of the material layers as well as in the fabric composition.

FIRE FLEX: resilient, durable, and modern

The materials used guarantee durability and longevity.

In particular, the outer materials are characterized by extremely high mechanical performance properties. When it comes to tensile strength, the X55 outer material with PBI achieves eight times the performance required by the EN 469 standard. In terms of tear propagation resistance, it exceeds the minimum requirements many times over.

All additional equipment, such as gloves, helmet, and boots are perfectly coordinated with the new FIRE FLEX.



FIRE FLEX with NOMEX® XTR outer fabric



PTFE high-performance membrane

The FIRE FLEX has an innovative material structure. The new 3D PTFE membrane is characterized by the highest level of breathability, with enormous heat-resistance and water-tightness. Thanks to the sophisticated fabric structure in combination with the PTFE membrane, the moisture is very quickly transported away from the body to the outside and, therefore, there is no heat build-up.

With the specific fabric structure, a water vapor permeation resistance value far below the permissible standard value in the highest performance class is achieved in the Ret-Test (Resistance to Evaporating Heat Transfer). The 3D PTFE membrane is certified to be virus- and bacteria-proof and provides optimum protection when in contact with injured persons.

Safety thermal lining

The FIRE FLEX uses an insulating yet breathable safety thermal lining that provides optimal protection against external influences, even in extreme conditions. The melamine resin aramid fleece lining with quilted cover made of aramid viscose blended fabric meets the high material requirements.

Different color designs.

You have the choice: NOMEX® NXT, NOMEX® XTR or X55 with PBI.



*Protective clothing
FIRE FLEX
NOMEX® NXT
color black-blue/gold*



*Protective clothing
FIRE FLEX
NOMEX® XTR
color black-blue/red*



Materials that have been tried and tested thousands of times in a completely new, modern design.

NOMEX® NXT

The FIRE FLEX protective suit made of NOMEX® NXT, a further development of NOMEX® Tough, is an excellent choice both visually and technically. It also scores with an excellent wash appearance. Even after many washes, the protective clothing retains its color and shape. The special long-term impregnation (up to 40 washes without re-impregnation) and the enormous tear strength of the NXT material ensure a particularly long service life.

NOMEX® XTR

The FIRE FLEX protective suit made of NOMEX® XTR with its innovative design is the latest development in the FIRE FLEX series. The optimized material composition consists of 82 % metaaramide, 16 % paraaramide and 2 % antistatic fiber. It has an excellent wash appearance and light fastness due to the shift of the paraaramide portion to the inside of the fabric, better thermal insulation due to the three-dimensional structure and Powershell long-term impregnation (up to 40 washes without re-impregnation).



Protective clothing
FIRE FLEX
NOMEX® NXT
color black-blue/gold

X55 with PBI

The protective suit is also available in a two-color version in the X55 with PBI material version.

Gold and brown creates design contrasts and sets accents. The fashionable design gives it a particularly good look. The shoulder area is accentuated in powerful brown. Also in this variant, the protective suit retains its shape and color after many washes.



Protective clothing
FIRE FLEX
X55 with PBI
color gold/brown

Protects with safety.

Saving and rescuing with FIRE FLEX.



With the innovative FIRE FLEX protective jacket, emergency personnel have the opportunity to secure other persons and themselves - in case of emergency, the high-performance garment provides a self-rescue function (optional).

Rescue strap

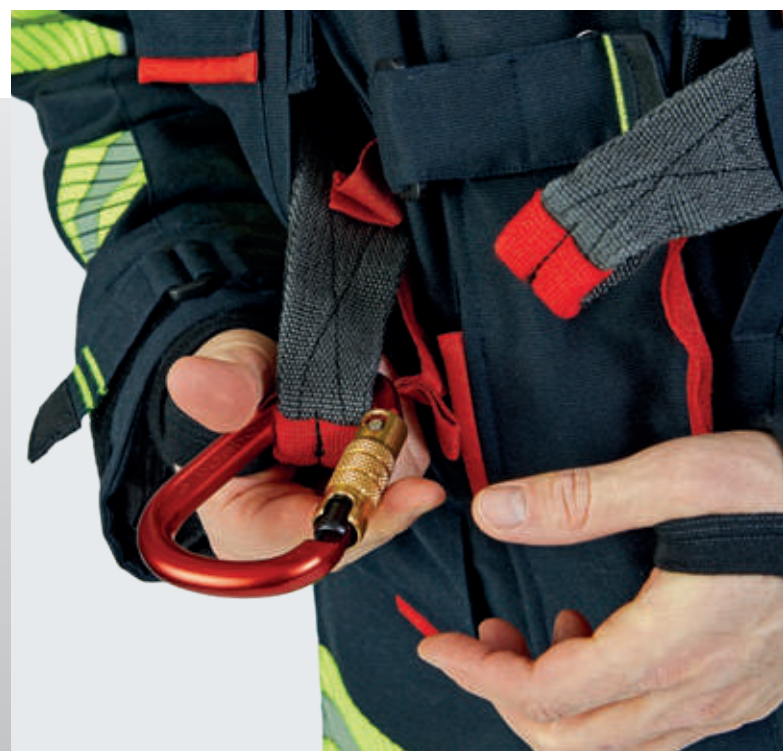
A robust rescue strap is fitted to the back of the jacket as standard, allowing you to pull an injured firefighter out of the immediate danger zone.

This rescue strap is constituted of a two-layer belt made of heat-resistant Nomex®, which runs across the back underneath the collar, thus evenly distributing the tensile load. For safety reasons, the strap is equipped with an additional Velcro fastener (thus eliminating any risk of the strap sticking out or getting caught). It is equipped with a padded grip piece for better handling.

■ Optional feature

Jacket with integrated rescue system

The FIRE FLEX jacket can be optionally equipped with an internal casing through which the Rosenbauer IRS belt can be threaded. The belt is available as an optional accessory and is certified as per EN 1498 Cl. A and EN 358. The 85 mm wide aramid belt is fitted with a triple-lock HMS aluminum carabiner according to EN 362.





■ Application areas

Restraint system

Particularly critical are situations in which there is an increased risk of falling. In order to make operations on embankments or flat roofs safer, the restraint system restricts the movement range of the emergency crew to a defined radius so that dangerous edges no longer pose a risk. The restraint system holds the emergency crew member securely in position and prevents a fall.

Positioning system

The system can be used as a positioning aid for activities at heights (e.g., on ladders). By tensioning the belt when leaning into the system, a stable working position can be adopted and a fall can be prevented.

Rescue system

In extreme situations, the IRS belt can also be used for self-rescue.

Numerous features.

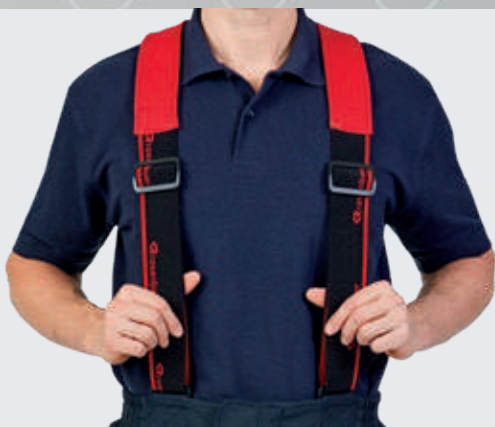
Ergonomic. Flexible. Innovative.



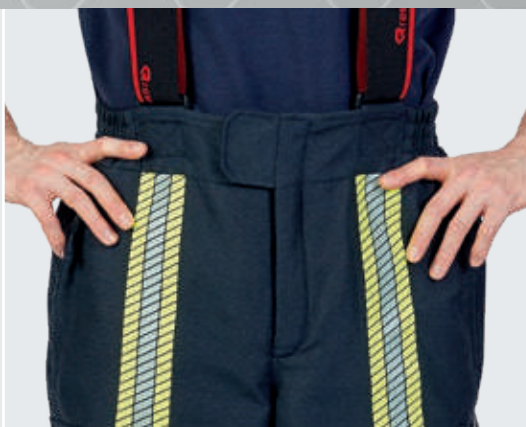
Extreme protection and comfort are not mutually exclusive. Dozens of sophisticated details make the FIRE FLEX a functional all-rounder and the right companion for the toughest fire service operation.



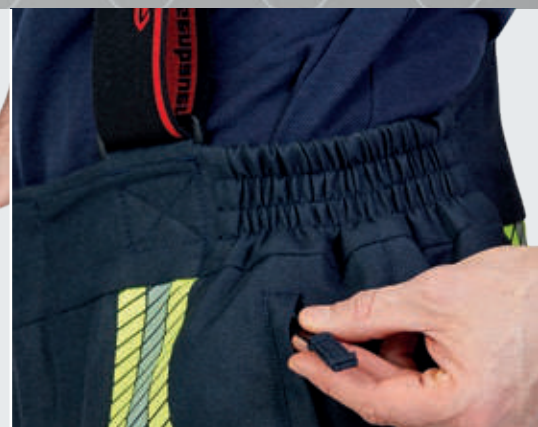
Trouser features



5 cm wide comfort suspenders, removable thanks to Velcro fasteners



Fly with zipper and Velcro fastener, covered by flap



Elastic waistband for perfect adjustment



15 x 2.5 cm fleece strip for attaching a name strip on the left side pocket flap



Side pockets with glove holding ring



Ergonomically shaped knees with reinforcement and fixed sewn knee pad from non-water-absorbent cellular rubber



Reinforcements on the inside of the trouser closure made of flame-retardant silicone-carbon coated para-aramid fabric



Moisture blocker made of robust flame-retardant PU coated aramid fabric at the trouser's seam.

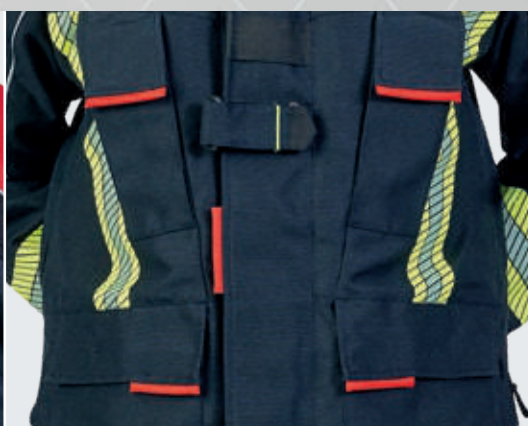


Inspection opening to check status of membranes on both sides (trousers and jacket)

■ Jacket features



Rescue strap on the back with grip



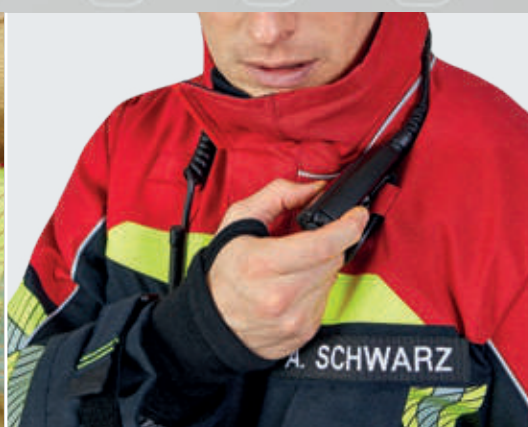
Practical, padded grip pieces on all pocket flaps and front cover



Extreme freedom of movement thanks to ergonomic sleeve design



Width adjustment at the sleeve end



Holding straps on both sides for hand-held microphone.



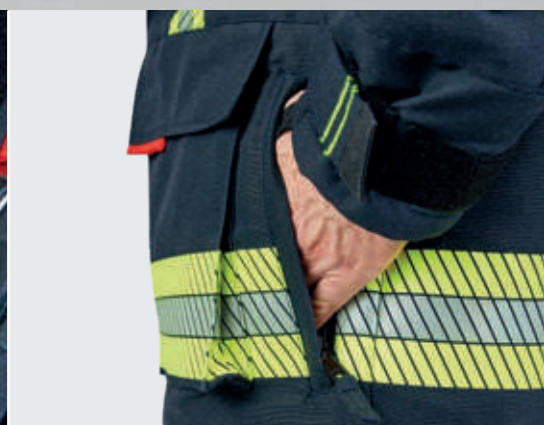
Breathable 3-layer moisture barrier on sleeve hem and front cover



Lamp holder on front cover and radio pockets on both sides



Plastic zipper with quick release function

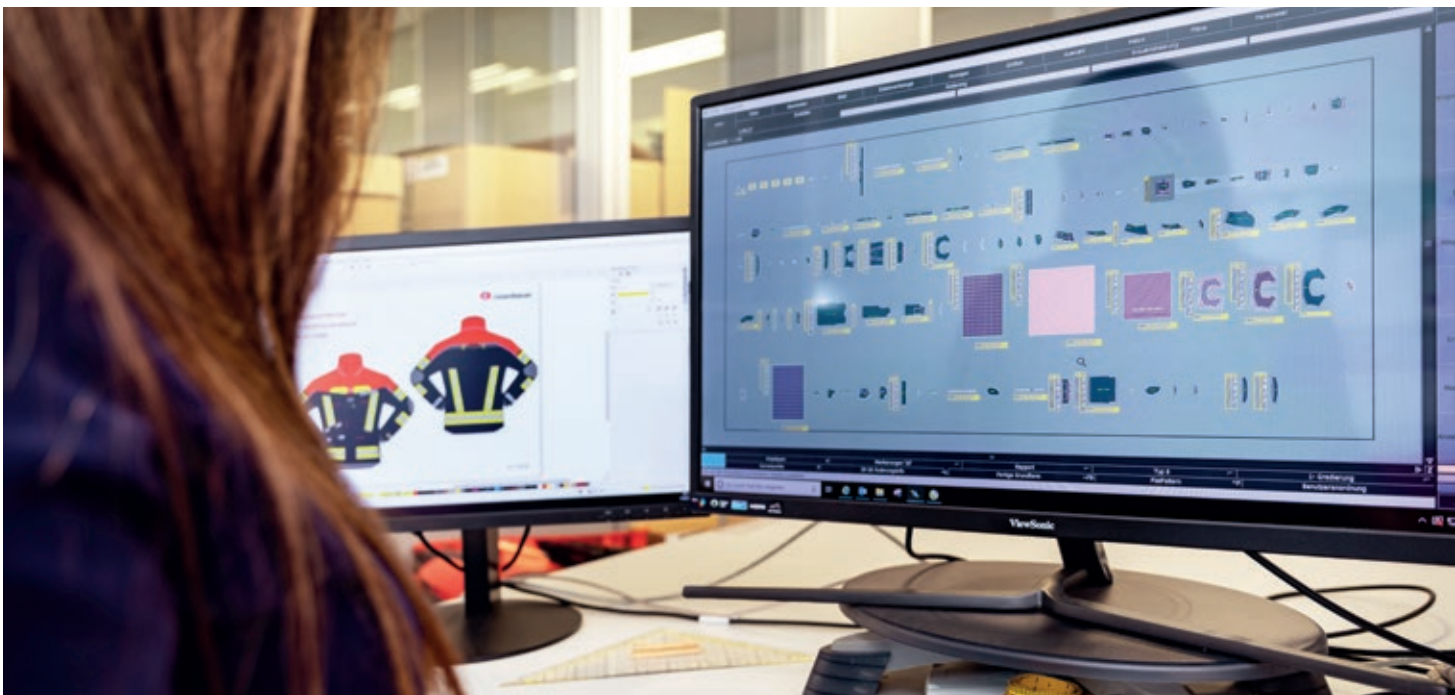


Angled comfort side pockets

Personal protective equipment.

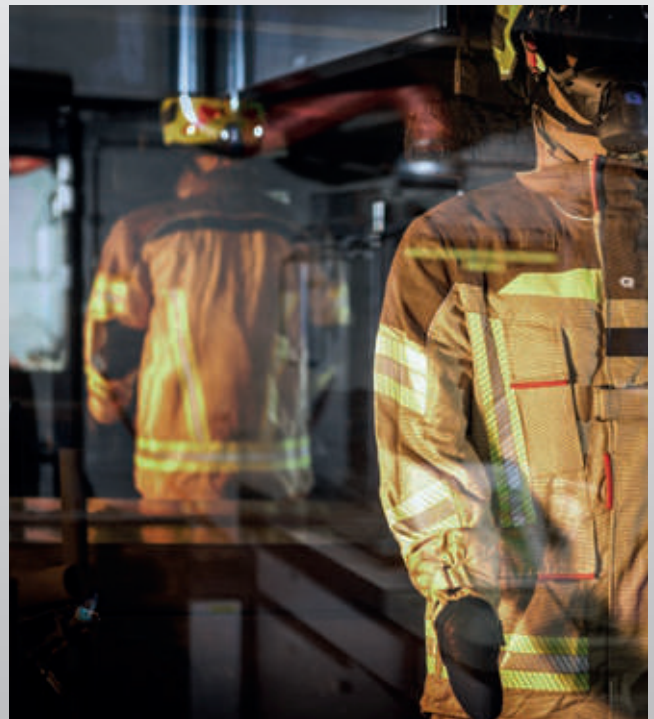
Development and production from a single source.

Rosenbauer has been a leader in the development, production, and marketing of firefighting technology for decades. Innovation is certainly one of the company's strongest and most consistent core competencies. The in-house development department and the design shop for personal protective equipment are core elements of the continuous technological development.



PPE from head to toe

Rosenbauer delivers perfectly matched equipment from head to toe. Rosenbauer is the only provider on the market that can offer all personal protective equipment for firefighting operations from a single source. All equipment – from helmets and protective suits to gloves and boots – is designed by our own employees. New standards have been set with HEROS helmets. Protective clothing increases operational safety. Protective gloves and firefighter boots complete the personal equipment perfectly.



By professional firefighters for professional firefighters

From concept to market maturity, Rosenbauer receives direct market feedback from within. Many employees work for the fire services and provide hands-on feedback in the development process. All protective equipment is tested before launch under real conditions. What is brought to market as an innovation corresponds 100 % to the requirements and needs of the customers.



Product development and tailoring in-house

Firefighter clothing is developed in-house at Rosenbauer. Product management, development, design, and pattern tailoring intensively work together on new models and on the continuous improvement of the protective suits. Individual customer requirements or changes to standards can thus be rapidly implemented in new products.

Maximum quality standards The most modern production standards

Numerous certifications confirm that the highest customer requirements are met. A network of audited and tested manufacturing partners in Europe ensures compliance with the highest standards and a sustainable supply chain of protective clothing.



FIRE FLEX

Professional protection. Perfect fit.



FIRE FLEX protective suit

Available sizes: 40-42 to 68-70 each in five lengths: A (156-164 cm), B (164-172), C (172-180), D (180-188) and E (188-196 cm)

Outer fabric Color	NOMEX® NXT black-blue/red	NOMEX® NXT black-blue/gold	NOMEX® NXT black-blue	NOMEX® NXT gold	X55 WITH PBI gold/brown
Jacket	14 1470	14 1471	14 1472	14 1473	14 1474
Trousers	14 1432 (black-blue)			14 1435	14 1437 (gold)
Outer fabric Color	NOMEX® XTR black-blue/red	NOMEX® XTR black-blue/gold	NOMEX® XTR black-blue	NOMEX® XTR gold	NOMEX® XTR red
Jacket	14 1442	14 1443	14 1444	14 1446	14 1448
Trousers	14 1445 (black-blue)			14 1447	14 1449

Options

140949	Rear lettering permanently printed 1st line: FIRE DEPARTMENT, 2nd line: CITY NAME, font size 4 cm, font length max. 38.5 cm, 2 lines The font color must be indicated!
14059922	Fleece for sections spine label 45 x 10 cm
14 10621	Fleece for sections spine label 38 x 8 cm
14 10629	Tunnel for FIRE FLEX protective jacket for use in conjunction with the IRS belt
14 10628	Pocket under front cover (Napoleon pocket)
1409806	Sewing in RFID chip UHF (jacket or trousers)
140781	Sleeve pocket 16 x 9 x 4 cm on left sleeve; with flap and Velcro tab

Accessories

1405966	Name tag embroidered on Velcro, 15 x 3 cm. Indicate color of tag and embroidery!
140948	Rear lettering on Velcro, two lines, size 10 x 45 cm
14 1062	Rear lettering on Velcro, two lines, size 8 x 38 cm
14 1253	Safety belt / rescue strap IRS belt, available in sizes 40-42 to 68-70 (same as jacket sizes)



140949 Rear lettering



14 10628 Napoleon pocket



14 1253 Safety belt / rescue strap IRS BELT