



# FIRE MAX 3

Protective suit certified as to EN 469,  
EN 1149-5 and EN 61482-2.

Next generation of protection  
and wearing comfort.

 rosenbauer

Ready for operation at any  
time with the FIRE MAX 3.  
Especially lightweight.  
Especially comfortable.



# FIRE MAX 3 – the protective suit.

Maximum protection. Best wearing comfort. Sporty style.

**Developed by professionals for extreme operations.**

The Rosenbauer FIRE MAX 3 protective suit was developed to offer firefighters maximum protection while at the same time guaranteeing the best wearing comfort.

- Certified as to EN 469:2020 and EN 1149-5:2018
- Maximum protection class in all three categories: heat resistance, water density, and water vapor permeation resistance
- Tested according to EN ISO 11612 for protection against liquid iron splashes
- Protective clothing against the thermal hazards of an electric arc IEC 61482-2:2018 Class 2
- Maximum comfort – maximum protection
- Modern, sporty style
- With many functional and practical details



IEC 61482-2:2018 Class 2



EN 1149-5:2018



Thermo-Man®



EN 469:2020

X2  
Y2  
Z2



*Maximum protection in firefighting operations.*



*Highest level of comfort with every movement.*



### Modern style, perfect fit.

Emergency crews often need to work for many hours under the most exacting of conditions. Whether in wet or cold, or facing extreme heat - a protective suit must guarantee maximum safety while at the same time offering the best possible wearing comfort.

This explains why the FIRE MAX 3 places so much emphasis on a perfect fit, a sporty style, and a comfortable wearing experience. In addition to this, experience in terms of the fit and practical features from the field of functional sports clothing were incorporated into the FIRE MAX 3 protective suit's design.

### Improved visibility thanks to optimized reflective stripes.

The FIRE MAX 3 also offers various benefits in terms of reflective stripes:

- Certified in line with visibility regulations as per EN 469
- Sleeves and collar with silver reflective braid
- Reflective stripes around the torso, sleeves and pant legs
- Additional vertical reflective stripes on the front side and slightly v-shaped stripes on the back side of the jacket
- Silver-colored reflective stripes on the chest and vertically on the pants legs



# High-end materials.

## Premium quality. Maximum protection.

### Improved material structure with new 3D PTFE membrane.

The FIRE MAX 3 has an optimized material structure. It uses innovative 3D PTFE membranes for maximum breathability accompanied with the best of class heat resistance. Thanks to the new structure, in combination with the PTFE membrane, sweat is quickly transported off the body to the outside, thus avoiding excessive heat build-up to a great extent.

In the RET test (Resistance to Evaporating Heat Transfer) the new material structure achieves a low value of just  $19 \text{ m}^2 \text{ Pa/W}$ . The mandatory standard value in the highest class requires a water vapor permeation resistance value of  $\leq 30 \text{ m}^2 \text{ Pa/W}$ .

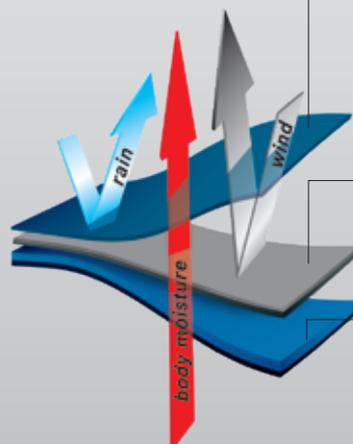
### Uncompromising safety.

Despite excellent breathability, the FIRE MAX 3 is still equipped with a safety thermal lining in order to ensure safety in extreme situations.



### Genuinely light – just 3.2 kg.

The weight of a protective suit plays an important role when it comes to a comfortable wearing experience. The FIRE MAX 3 weighs in at just 3.2 kg (for sizes 48-50).



## Fabric structure

### Outer fabric

**NOMEX® Tough,  
NOMEX® NXT**  
Weight:  
approx.  $195 \text{ g/m}^2$   
Colors: dark blue,  
gold or red (NXT)

**PBI Matrix and  
X55 with PBI**

Weight:  
approx.  $205 \text{ g/m}^2$   
Color: golden yellow

### Moisture barrier (liner)

3D PTFE membrane made of melamine resin fiber/aramid carrier  
Weight: approx.  $125 \text{ g/m}^2$

### Safety thermal lining

Melamine resin fiber/aramid fleece with quilted cover layer made of mixed aramid/viscose fabric.  
Weight: approx.  $180 \text{ g/m}^2$



**Its advantages: tensile strength and flame resistance.**

The high-tech X55 material with PBI offers extremely good mechanical properties. When it comes to tensile strength, it achieves eight times the performance required by the EN 469 standard (> 3,600 N). In terms of tear propagation resistance, the suit even exceeds the minimum requirements many times over (up to 600 N as per ISO 4674-1 procedure B).



**X55 with PBI: two colours in one suit.**

With its special design, this protective suit gets everyone's attention. Two colours – gold-yellow and dark brown – provide a purposeful contrast and lend the suit a particularly attractive look and feel. The shoulder areas and sleeves, the pants cuff, as well as details on the jacket and pants pockets are executed in striking dark brown. The FIRE MAX 3 made from X55 with PBI not only provides firefighters with the best protection, but also maintains its excellent features even after many washes.



# Proven high-performance materials.

## X55 with PBI and NOMEX® NXT.

The outer fabrics NOMEX® NXT and X55 with PBI supplement the existing variants of the FIRE MAX 3 protective suit. The benefit of the X55 outer fabric is the use of a PBI high-performance fabric with excellent tensile strength, even better flame resistance and a distinctive look. The NOMEX® NXT material impresses with its excellent washing resistance and, thanks to long-term impregnation, through its particularly long service life.

The X55 material always retains its shape, even after many washes.



### NOMEX® NXT.

The FIRE MAX 3 protective suit made of NOMEX® NXT is a visual and technical improvement of the proven NOMEX® Tough quality. This firefighting clothing not only scores with its colour selection, but above all also through its excellent washing resistance. Even after several washes, this protective clothing retains its colour and shape. The long-term impregnation (up to 40 washes without reimpregnation) and the higher tear strength of the NXT material, compared to the conventional NOMEX® Tough quality, also ensures a particularly long service life. The FIRE MAX 3 from NOMEX® NXT is available in three colours: red, gold and black-blue.

# FIRE MAX 3 IRS

## Protective jacket with integrated rescue system.

This special version of the FIRE MAX 3 jacket allows the wearer to secure victims – or in extreme cases – to facilitate his own rescue. The jacket is equipped with an internal tunnel, through which the Rosenbauer IRS belt can be inserted.

### Reflective striping with added value.

Extensive reflective striping is another highlight of the IRS jacket. The quality and quantity of the reflective stripes follow the specifications of the German standard HuPF (production and testing description for universal protective fireproof clothing). Thus, the jacket complies with the requirements for visibility of EN 469 in all sizes. As a result, it is not necessary to wear a warning vest in some countries (warning vest exemption), as stipulated by statutory requirements.



## ■ Applications for the integrated rescue system

### As restraint system

The restraint system serves to prevent free falls. Fire fighters must be able to secure themselves in place in order to avert the risk of falling. Falling is ruled out by preventing the firefighter from even coming close to edges that represent a falling risk. Applications, for example, include work on embankments, flat roofs, etc.

### As positioning system

By leaning into the system, a working position can be maintained which prevents free-fall. In other words, leaning into a tensioned system without the risk of falling. Applications include working on ladders, for example.

### As rescue system

The rescue system prevents the free fall of the rescuer and the person to be rescued during operations. This includes self-rescue as well as the rescue of victims.



## It's this easy

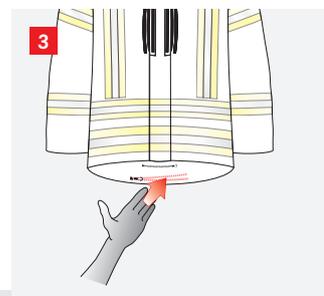
The front side of the jacket features two additional openings.



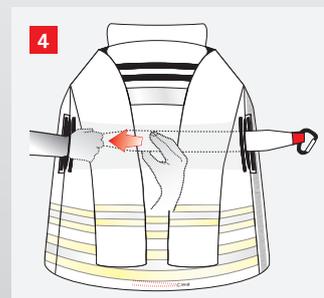
The Rosenbauer IRS belt is inserted through an internal tunnel in the jacket.



The belt tunnel is accessed through an extra opening on the lower end of the jacket.



This means the belt can be effortlessly pushed forward.



The belt is fully inserted and the two loops that can be attached to a carabiner.



### The Rosenbauer IRS belt

A belt is available as an optional accessory for the FIRE MAX 3 IRS jacket. It is certified as per EN 1498 Cl. A and EN 358. It consists of an 85 mm wide aramid belt with a triple-lock HMS aluminum carabiner according to EN 362.

### Details and options

The FIRE MAX 3 IRS jacket is additionally equipped with a robust quick-release zipper made of metal. Two Velcro pieces on the back allow for a sign (38 x 8 cm) to be attached. The jacket is available in four different variations: NOMEX® Tough dark blue or gold, PBI Matrix and PBI NEO.

# Numerous features.

Protection. Safety. Comfort.



# Functional accessories.

9 Removable suspenders thanks to Velcro fasteners

10 Fly with zipper and Velcro fastener

11 Reinforcements on pant cuffs and inside of pants

12 Moisture barrier

13 Inspection opening

14 Elastic waistband for adjusting waist

Two angled side pockets

15 Fleece strip for attaching a name strip

Side pockets with glove holding ring

16 Ergonomically shaped knees with reinforcements and knee pads

17 5 cm wide reflecting stripes

## Trousers features



9  
5 cm wide suspenders, removable thanks to Velcro fasteners



12  
Moisture blocker made of flame-retardant PU coated Aramid fabric at the trouser's seam.



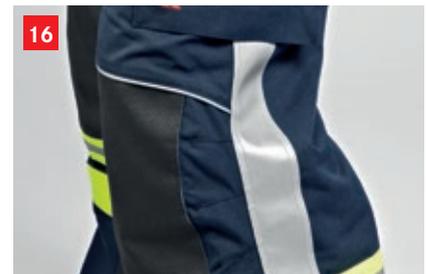
15  
15 x 2.5 cm fleece strip for attaching a name strip on the left side pocket flap



10  
Fly with zipper and Velcro fastener, covered by flap



13  
Inspection opening to check status of membranes



16  
Ergonomically shaped knees with reinforcements and sewn-in knee pads made of water-repellent cellulose rubber.



11  
Reinforcements at the knees, on the cuffs and interior seams of the pants made of flame-retarding silicon-carbon coated Para-aramid fabric



14  
Elastic waistband for perfect adjustment



17  
5 cm wide reflecting strips around the legs and a vertical silver-colored reflective stripe on the outside of the trousers

### Practical and comfortable

The practical features leave nothing to be desired: numerous pockets, holders for lamps and shoulder patches, reinforced at the knees and elbows, removable suspenders, zipper openers for checking the membranes, and other useful features round off this protective suit.

# Functional accessories.

## Jacket features

FIRE MAX 3 was developed to meet fire departments' needs in the best possible way. The suit is equipped with numerous features and functional accessories to give firefighters maximum benefits in terms of safety, comfort, and practical handling.



Flame protection collar can be pulled up under the helmet, closure with Velcro fastener at the front



No moisture penetration thanks to moisture blocker made of PU-coated Aramid fabric



Heat protectors for even more safety in the breathing apparatus belt area



Holding loop for manual microphone on left



Ergonomically shaped elbows with reinforcements made of flame-retardant, silicon-carbon coated Para-aramid fabric



Radio pockets on both sides



Sleeve width can be adjusted individually due to Velcro, sleeves with NOMEX knitted wristlet and thumb hole



Inspection opening to check status of membranes

# FIRE MAX 3

Next generation of protection and wearing comfort.



## FIRE MAX 3 protective suit NOMEX®

Available sizes: 40-42 to 60-64 each in five lengths: A (156-164 cm), B (164-172 cm), C (172-180 cm), D (180-188 cm), E (188-196 cm)

Outer fabric color	NOMEX® Tough dark blue	NOMEX® Tough gold	NOMEX® NXT black-blue	NOMEX® NXT gold	NOMEX® NXT red
Jacket	14 1200	14 1202	-	-	14 1262
IRS jacket (without belt)	-	-	14 1266	14 1267	14 1268
Trousers	14 1201	14 1203	14 1263	14 1264	14 1265

## FIRE MAX 3 protective suit PBI

Available sizes: 40-42 to 60-64 each in five lengths: A (156-164 cm), B (164-172 cm), C (172-180 cm), D (180-188 cm), E (188-196 cm)

Outer fabric color	PBI Matrix golden yellow	X55 mit PBI golden yellow/dark brown
Jacket	14 1204	14 1240
IRS jacket (without belt)	14 1252	14 1242
Trousers	14 1205	14 1241

## Options for FIRE MAX 3 and IRS jacket

140949	Rear lettering permanently printed (standard jacket only) 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 (standard jacket only)
14 10625	Pocket under front cover (Napoleon pocket)
1409806	Sewing in RFID chip UHF (jacket or trousers)
140780	Sleeve pocket 16 x 9 x 4 cm on left sleeve; with flap and Velcro tab

## Accessories for FIRE MAX 3 and IRS jacket

1405966	<b>Name tag</b> 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 (IRS jacket only)
14 1253	Safety belt/rescue strap IRS belt, available in sizes 40-42 to 68-70 (same as jacket sizes) (IRS jacket only)