

## FALCON – *That* Firefighters` glove

### General

This glove is the result of a long standing project developed together with the Swedish Rescue Service. Since December, 1994 the glove is CE-certificated, the first one according to prEN 659 then. A special version of this glove – with another insert glove – is also certificated for USA according to NFPA 1973 „Gloves for Structural Fire Fighting“, issue 1993.

### Philosophy

Even in risk situations shape and design of the glove is intended to meet all requirements, at rough work as well as operating small switch-keys without taking off the glove.

### Material

Palm of the glove is made of cow grain leather because that is a very strong and durable leather.

The back hand does not need such extremely high mechanical performance but is more exposed to intensive radiant heat. Elk leather is more porous, and therefore protecting better against both – heat and cold. The use of elk leather for the back hand and gussets between the fingers effects extremely high flexibility.

The leather has been impregnated in order to resist to heat, and especially to avoid or to reduce shrinkage. The leather has also been impregnated for a better grip under wet conditions.

To avoid shrinkage after washing the leather has been chrome curried and reactively after-dressed.

There is a selection of different insert gloves (PORELLE®, GORE-TEX®, CROSSTECH®), to protect the glove against wetting but in time to keep it vapor permeable.

Crosstech insert glove is intended to protect gainst bacteria, and therefore used for US-type because NFPA requires such protective property.

The glove is lined with NOMEX, sufficient even under arctic conditions.

### Design

The glove is looking evidently as a skiing glove because such gloves also need good design and flexibility.



FALCON with leather cuff



FALCON with knitted wristlet of NOMEX®

- anatomical
- soft
- flexible
- sensitive
- insulating
- protecting
- strong
- washable

To give him a safe and strong grip the glove is anatomically shaped. Moreover the glove has extensible gussets on the knuckles. These factors keep the insulating air inside the glove in order to protect the back hand, and to give more flexibility.


Sensitive areas of the glove are reinforced. Seams that might cause blisters after longtime use are covered inside of the glove.

The glove is available with different kinds of cuffs to offer a well-fitted connection to the sleeves of the jacket.

### The models

Model-Number	Moisture barrier	Type of cuff	Cuff length	Standard
52-1130.99	PORELLE®	Leather	7 cm	EN 659:2003
52-1170.99	GORE-TEX®	Leather	7 cm	EN 659:2003
52-1180.99	GORE-TEX®	Wristlet of NOMEX®	7 cm	EN 659:2003
52-1190.99	PORELLE®	Leather	14 cm	EN 659:2003
52-1200.99	PORELLE®	Wristlet of NOMEX®	7 cm	EN 659:2003
52-1210.99	Crosstech®	Leather	7 cm	NFPA 1973
52-1220.99	Crosstech®	Strickbund a/NOMEX®	7 cm	NFPA 1973
52-1230.99	GORE-TEX®	Leder	14 cm	EN 659:2003

P/N	52-1130.99	52-1170.99	52-1180.99	52-1200.99
	Art.no. are to be completed by code depending on the size (see below para. 3.2)			
Model	5-finger glove, anatomically designed, extensible gussets on knuckles, with leather loop			
Material	a) palm b) back c) cuff Cow grain leather Elk leather Split leather, unlined   <b>NOMEX®</b> wristlet			
Reinforcement	Thumb and cuff			
Lining (1)	PORELLE®	GORE-TEX®	PORELLE®	
Lining (2)	<b>NOMEX®</b> knitwear			
Application	Contact heat, convective heat, radiant heat (firefighters)			
Temperature range	<250°C contact heat			
Packing unit	5 pairs			
Product packing	PE-bag			
Dispatch packing	Cardboard box			
Storage	dustfree, protected from light			
Washing temperature	40°C (suitable detergents available)			
Cleaning	No cleaning			
Waste removal	Waste, depending of conatamination by use			
<b>General requirements</b>	<b>Standard</b>			
pH-value	EN 420	<7,0		
Allergies	EN 420	no skin irritation known		
3.2 Sizes (YYY.Y*)	EN 659 / EN 420	7= <b>178.8</b> 8= <b>178.9</b> 9= <b>179.0</b> 10= <b>179.1</b> 11= <b>179.2</b> 12= <b>179.3</b>	7= <b>179.8</b> 8= <b>179.9</b> 9= <b>180.0</b> 10= <b>180.1</b> 11= <b>180.2</b> 12= <b>180.3</b>	7= <b>180.8</b> 8= <b>180.9</b> 9= <b>181.0</b> 10= <b>181.1</b> 11= <b>181.2</b> 12= <b>181.3</b>
3.2 Lengths	EN 659	Mind. 7=270, 8=280, 9=290, 10=305=, 11=315 mm		

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<b>Physical Requirements</b>	<b>Standard</b>	<b>Level</b>		
		<b>required</b>	<b>reached</b>	
3.3 Abrasion resistance	EN 388		<b>3</b>	
3.4 Cut resistance	EN 388		<b>2</b>	
3.5 Tear resistance	EN 388		<b>3</b>	
3.6 Puncture resistance	EN 388		<b>3</b>	
3.7 Burning behaviour	EN 26941		<b>4</b>	
3.8 Convective heat	EN 367/EN 407	HTI <sub>24</sub> ≥13s = <b>3</b>	<b>4</b>	
3.9 Radiant heat	ISO 6942	RHTI <sub>24</sub> ≥22s		
3.10 Contact heat	EN 702	2 (250°C = t <sub>t</sub> ≥10s)		
3.11 Heat resistance of lining	ISO 17493	No melting, dripping or igniting		
3.12 Shrinkage	ISO 17493	<5%		
3.13 Dexterity	EN 420	<b>1</b>	<b>5</b>	
3.14 Seam strength	ISO 13935-2	≥350 N		
3.15 Time to take off the gloves	EN 659	≤3s		
3.16 Water penetration (material)	EN 344	optional	<b>4</b> (180 min)	
3.17 Liquid penetration (glove)	ISO 15383	No permeation		
3.18 Penetration of liquid chemicals	EN 368	No permeation		
5 Marking	EN 659 / EN 420	0403 		
Notified Body		FIOH Finish Institute of Occupational Health Topeliuksenkatu 41 A, FIN-00250 Helsinki		
CE-type examination no. Certification no.		24145S01 / 13.07.2004		

## FALCON - *That* Firefighters`glove

### Care instructions

#### General

Main parts of FALCON gloves are consisting of cow grain and elk leather. In order to avoid shrinkage after washing the leather has been chrome tanned and reactively after-dressed.

The leather has been impregnated in order to resist to heat, and especially to avoid or to reduce shrinkage. The leather has also been impregnated for a better grip under wet conditions.

These for firefighter important properties might go lost when using a wrong detergent (pH-value > 7).



Art.no. 52-1200.99 / YYY.Z

Since it would be not easy to buy a suitable and neutral detergent for such high-specialized leather on the market, a detergent especially developed for that glove is available in cans of different size



#### Hand wash

Put on the gloves and dip into handwarm water. Apply detergent on soiled areas and work out by a hard nail brush. Repeat this process as often as necessary.

#### Machine wash

Take 0,1 l leather detergent for 6-8 kg gloves. Select easy program at 40°C and following spin-dry. Afterwards stretch the gloves lengthwise and hang them up for drying at not more than 40°C. When dried stretch the gloves crosswise in order to get them soft again.



#### Storage

The gloves should be always stored in a dry and clean room.

They should be protected from a strong light source.

#### Maintenance

Gloves should be checked before use. Seams shall be undamaged.

Laboratory test conditions do not correspond to the conditions in practise and reality. Therefore it is not possible to determine the deadline of the gloves.

Pay attention to the right size and do not change the product.



Art. Nr. 52 – 1130.99 / YYY.Z

When clean, wring out the gloves as well as possible, but do not rinse the fat foam. Stretch the gloves lengthwise and hang them up for drying at not more than 40°C. When dried stretch the gloves crosswise in order to get them soft again.

Damaged gloves may not continued to be used and shall be removed from service.