

### FC21 - Bocanci de Protectie Portwest Compositelite S1

**Colectie:** CompositeLite™ Work.

**Gama:** Incaltaminte

**Material caramb:** Piele Spaltuita

**Material talpa:** Poliuretan / Poliuretan

**Pachet exterior:** 12

#### Informatii despre produs

Usori, 100% nemetalici cu bombeu compozit si talpa exterioara din poliuretan cu densitate dubla pentru protectie sporita. Ideali pentru securitatea aeroporturilor si alte medii unde se fac controale de securitate

#### CompositeLite™ Work.

Design si inginerie de top care ofera protectie durabila si look atragator. Componente de siguranta nemetalice ideale pentru uz industrial, avand o constructie rezistenta si usoara.

#### Incaltaminte

Inovatia, designul, stilul si componentele de calitate definesc colectia de protectie a picioarelor Portwest.

#### Standarde

EN ISO 20345 S1



#### Caracteristici

- Guler captusit pentru confort sporit
- Bombeu compozit
- Incaltaminte antistatica
- Zona de sprijin cu absorbtie de energie
- SRC - Talpa antiderapanta pentru a preveni alunecările și împiedicările pe suprafețe ceramice și de oțel
- Talpa exterioară rezistentă la combustibil și ulei
- Certificare CE
- Marcat UKCA
- Talpa cu densitate dubla
- 100% nemetalic

**FC21 - Bocanci de Protectie Portwest Compositelite S1**  
**Cod de comoditate: 6403400000**

**Organism de testare**

Intertek Italia S.p.A. (Organism notificat nr.: 2575)

Via Guido Miglioli 2/A,

, Italy

Numarul certificarii: LECFI00382071

**Carton Dimensions/Weight**

Item	Colour	Len	Wid	Hgt	Weight(Kg)	Cubic(m <sup>3</sup> )	EAN13	DUN14
FC21BKR36	Negru	65.0	41.0	37.0	1.0100	0.0986	5036108170623	15036108624697
FC21BKR37	Negru	65.0	41.0	37.0	0.8800	0.0986	5036108170630	15036108624703
FC21BKR38	Negru	65.0	41.0	37.0	0.9600	0.0986	5036108170647	15036108624710
FC21BKR39	Negru	65.0	41.0	37.0	1.1000	0.0986	5036108170654	15036108624727
FC21BKR40	Negru	65.0	41.0	37.0	1.1200	0.0986	5036108170661	15036108624734
FC21BKR41	Negru	65.0	41.0	37.0	1.2000	0.0986	5036108170678	15036108624741
FC21BKR42	Negru	65.0	41.0	37.0	1.1800	0.0986	5036108170685	15036108624758
FC21BKR43	Negru	69.0	45.0	38.0	1.2000	0.1180	5036108170692	15036108624765
FC21BKR44	Negru	69.0	45.0	38.0	1.4200	0.1180	5036108170708	15036108624772
FC21BKR45	Negru	69.0	45.0	38.0	1.3800	0.1180	5036108170715	15036108624789
FC21BKR46	Negru	69.0	45.0	38.0	1.5800	0.1180	5036108170722	15036108624796
FC21BKR47	Negru	69.0	45.0	38.0	1.3800	0.1180	5036108170739	15036108624802
FC21BKR48	Negru	75.0	47.0	41.0	1.5000	0.1445	5036108170746	15036108696007
FC21BKR49	Negru	75.0	47.0	41.0	1.5700	0.1445	5036108309955	15036108798558

# EU TYPE EXAMINATION CERTIFICATE

intertek



**Issued to** : PORTWEST  
Westport, County Mayo, Ireland

**Issue Date** : 30 November 2020

APPROVED BODY 0362

**Expiry Date** : 21 April 2023

The safety footwear detailed herein meets the criteria of an EU Type Examination in accordance with Annex V, including the applicable clauses of the Essential Health and Safety Requirements of the PPE Regulation EU 2016/425 for Category II products.

**Certificate No.** : LECFI00382071 (Extension to Certificate LECFI00369890)

**Product Reference(s)** : FC21(UFC21), FC41

This has been shown through satisfactory testing to EN ISO 20345: 2011 and examination of the Technical File Documentation.

**Description** : Construction : Injected  
Toecap : 459  
Last : 02  
Sole : PU  
Mould : 02  
Test Report(s) : See Technical File  
Size Range : 36-48  
Category : S1 SRC

Following an EU Declaration of Product Conformity you are hereby licensed to mark the product(s) detailed in accordance with Article 17 of the PPE Regulation EU 2016/425

ITS Testing Services (UK) Ltd.  
Centre Court  
Meridian Business Park  
Leicester, LE19 1WD  
United Kingdom  
Phone: +44 (0)116 263 0330  
Fax: +44 (0)116 263 0311



Assessor: CBall Date: 30/11/2020

Certification Manager: P. Williams Date: 30/11/2020

For and on behalf of ITS Testing Services (UK) Limited

### FW07 - Ghete Sudor Steelite S3 HRO

**Colectie:** CompositeLite™ Work.

**Gama:** Incaltaminte

**Material caramb:** Piele Spaltuita

**Material talpa:** Poliuretan / Cauciuc

**Pachet exterior:** 12

### Informatii despre produs

Design pentru sudori cu clapeta de protectie din piele impotriva scanteilor, o catarama cu eliberare rapida si talpa exterioara din cauciuc si 300 HRO PU/ Cauciuc. Cusaturi ignifuge, bombeu si talpa intermediara compozit.

### CompositeLite™ Work.

Design si inginerie de top care ofera protectie durabila si look atragator. Componente de siguranta nemetalice ideale pentru uz industrial, avand o constructie rezistenta si usoara.

### Incaltaminte

Inovatia, designul, stilul si componentele de calitate definesc colectia de protectie a picioarelor Portwest.

### Standarde

EN ISO 20345 S3



### Caracteristici

- Clapă de protecție din piele pentru a proteja împotriva scânteilor
- Cataramă ergonomică cu eliberare rapidă
- Cusături ignifuge
- Construcția sub-limba pantofului pentru o rezistență mai bună la pătrunderea apei
- Guler captusit pentru confort sporit
- Talpă exterioară rezistentă la căldură 300°C
- Bombeu compozit
- Talpa intermediara din compozit rezistenta la intepaturi
- Incaltaminte antistatica
- Zona de sprijin cu absorbtie de energie
- Partea superioară rezistentă la apă pentru a preveni pătrunderea apei



## FW07 - Ghete Sudor Steelite S3 HRO

**Cod de comodatate: 6403400000**

### Organism de testare

Intertek Italia S.p.A. (Organism notificat nr.: 2575)

Via Guido Miglioli 2/A,

, Italy

Numarul certificarii: LECFI00374670

ITS Testing Services (UK) Ltd. (Intertek) (Organism notificat nr.: 0362)

Centre Court

LE19 1WD, UK

Numarul certificarii: LECFI00382497

### Carton Dimensions/Weight

Item	Colour	Len	Wid	Hgt	Weight(Kg)	Cubic(m <sup>3</sup> )	EAN13	DUN14
FW07BKR38	Negru	67.0	40.0	38.0	1.2400	0.1018	5036108183944	15036108627094
FW07BKR39	Negru	67.0	40.0	38.0	1.2200	0.1018	5036108183951	15036108627100
FW07BKR40	Negru	67.0	40.0	38.0	1.3400	0.1018	5036108183968	15036108627117
FW07BKR41	Negru	67.0	40.0	38.0	1.3900	0.1018	5036108183975	15036108627124
FW07BKR42	Negru	67.0	40.0	38.0	1.4300	0.1018	5036108183982	15036108627131
FW07BKR43	Negru	70.0	43.0	38.0	1.4600	0.1144	5036108183999	15036108627148
FW07BKR44	Negru	70.0	43.0	38.0	1.4800	0.1144	5036108184002	15036108627155
FW07BKR45	Negru	70.0	43.0	38.0	1.5800	0.1144	5036108184019	15036108627162
FW07BKR46	Negru	70.0	43.0	38.0	1.6400	0.1144	5036108184026	15036108627179
FW07BKR47	Negru	70.0	43.0	38.0	1.6800	0.1144	5036108184033	15036108627186
FW07BKR48	Negru	70.0	43.0	38.0	1.7400	0.1144	5036108212200	15036108697882

# EU TYPE EXAMINATION CERTIFICATE

intertek



**Issued to** : Portwest  
WESTPORT,  
CO MAYO,  
IRELAND

**Issue Date** : 28 May 2019

**Expiry Date** : 21 May 2024

**Certificate No.** : LECFI00374670 (Extension of Certificate LECFI00374669)

**Product Reference(s)** : FW07

**Description** : Construction : Injection  
Toecap : Composite toecap  
Midsole : Composite plate  
Last : 459  
Sole : 08# Dual density PU/RUBBER sole  
Mould : 08#  
Test Report(s) : See technical file  
Size Range : 36-48  
Category : S3 SRA HRO

## APPROVED BODY 0362

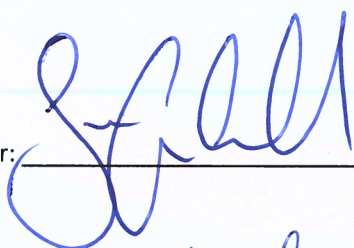
The safety footwear detailed herein meets the criteria of an EU Type Examination in accordance with Annex V, including the applicable clauses of the Essential Health and Safety Requirements of the PPE Regulation EU 2016/425 for Category II products.

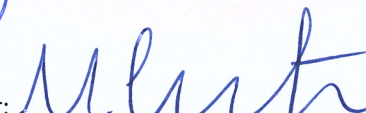
This has been shown through satisfactory testing to EN ISO 20345: 2011 and examination of the Technical File Documentation.

Following an EU Declaration of Product Conformity you are hereby licensed to mark the product(s) detailed in accordance with Article 17 of the PPE Regulation EU 2016/425

ITS Testing Services (UK) Ltd.  
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Meridian Business Park  
Leicester, LE19 1WD  
United Kingdom  
Phone: +44 (0)116 263 0330  
Fax: +44 (0)116 263 0311



Assessor:  Date: 28/05/2019

Certification Manager:  Date: 28/05/2019

For and on behalf of ITS Testing Services (UK) Limited





**Prod. Ref.** NT340-000  
**Safety cat.** S3 SRC  
**Range of sizes** 40 - 48 (6,5 - 13)  
**Weight (sz. 8)** 820 g  
**Shape** C  
**Wide** 11

**Description:** Black water repellent printed leather rigger, **Texelle** lining, antistatic, anti-shock, slipping resistant, with steel midsole.

**Plus:** Footbed **AIR** made of EVA and fabric, antistatic, anatomic, holed, antistatic. It guarantees high stability thanks to its different thicknesses in the plantar area. Bellows tongue. Padded collar. PU toe cap protection.

**Suggested uses:** Engineering jobs, maintenance jobs, buildings, industries.

**Care and maintenance:** Clean after each use and dry off away from direct heat; treat the leather with a suitable shoe-polish. Avoid contact with aggressive chemicals or extreme temperature. Avoid immersion in sea water, lime water or cement mixed with water.

**MATERIALS / ACCESSORIES**

**SAFETY TECHNICAL SPECIFICATIONS**

		Clause EN ISO 20345:2011	Description	Unit	Cofra result	Requirement
<b>Complete shoe</b>	<b>Toe cap:</b> steel made, varnished with epoxy resin, impact resistant until 200 J	5.3.2.3	Shock resistance (clearance after shock)	mm	<b>16</b>	⚡ 14
	and compression resistant until 1500 kg	5.3.2.4	Compression resistance (clearance after compression)	mm	<b>15</b>	⚡ 14
	<b>Anti perforation midsole:</b> stainless steel, penetration resistance, varnished with epoxy resin	6.2.1	Penetration resistance	N	<b>1635</b>	⚡ 1100
	<b>Antistatic shoe:</b> the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance			
			- wet	M ⚡	<b>280</b>	⚡ 0.1
			- dry	M ⚡	<b>820</b>	↑ 1000
	<b>Energy absorption system:</b> polyurethane low density and heel profile	6.2.4	Shock absorption	J	> <b>35</b>	⚡ 20
<b>Upper</b>	Black water repellent printed leather thickness 1,6/1,8 mm	5.4.6	Water vapour permeability	mg/cmq h	> <b>2,4</b>	⚡ 0,8
			Permeability coefficient	mg/cmq	> <b>27,9</b>	> 15
		6.3.1	Water resistance	minutes	> <b>60</b>	> 60
<b>Vamp lining</b>	Felt, breathable, colour dark grey thickness 1,2 mm	5.5.3	Water vapour permeability	mg/cmq h	> <b>5,3</b>	⚡ 2
			Permeability coefficient	mg/cmq	> <b>43,1</b>	⚡ 20
<b>Quarter lining</b>	<b>Texelle</b> , breathable, abrasion resistant, colour black thickness 1,2 mm	5.5.3	Water vapour permeability	mg/cmq h	> <b>5,6</b>	⚡ 2
			Permeability coefficient	mg/cmq	> <b>45,6</b>	⚡ 20
<b>Insole</b>	Antistatic, absorbent, abrasion and flaking resistant.	5.7.4.1	Abrasion resistance	cycle	> <b>400</b>	⚡ 400
<b>Sole</b>	Antistatic dual-density Polyurethane directly injected in the upper:	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>84</b>	↑ 150
	Outsole: black, high density, slipping resistant, abrasion resistant and hydrocarbons resistant,	5.8.4	Flexing resistance (cut increase)	mm	<b>2</b>	↑ 4
		5.8.6	Interlayer bond strength	N/mm	> <b>5</b>	⚡ 4
	Midsole: black, low density, comfortable and anti-shock	6.4.2	Hydrocarbons resistance ( *V = volume increase)	%	<b>1,8</b>	↑ 12
	Adherence coefficient of the sole	5.3.5	SRA : ceramic + detergent solution – flat		<b>0,6</b>	⚡ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		<b>0,5</b>	⚡ 0,28
		SRB : steel + glycerol – flat		<b>0,28</b>	⚡ 0,18	
		SRB : steel + glycerol – heel (contact angle 7°)		<b>0,19</b>	⚡ 0,13	



According to the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016  
on personal protective equipment and repealing Council Directive 89/686/EEC

**A. N.C.I. Servizi s.r.l. a socio unico - sezione C.I.M.A.C.  
Community Identification N° 0465**

Grants:  
Manufacturer

**COFRA S.R.L.**  
**VIA DELL'EURO 53-57-59**  
**76121 BARLETTA**

**EU TYPE-EXAMINATION CERTIFICATE MODULE B**  
**N° F-100-01186-18**

for the following model of Personal Protective Equipment:

**Design/ Article:** Half-knee boot art. "GUADIANA - 1163"

**Category of PPE:** II

**Additional requirements:** S3 SRC

safety footwear for professional use according to harmonized standard (\*)  
EN ISO 20345:2011

**Picture of the basic model**



**First issue date: 19/10/2018**  
**Revision date: --**  
**Expiry date: 19/10/2023**

**Manufacturer's identification mark:** COFRA

**Classification:** I - Footwear made from leather and other materials, excluding all-rubber or all-polymeric footwear

**Size range:** from 36 to 48 (french point)

**Identification of last:** U6261

**Manufacturing process:** Injection

**The footwear has a:**

metallic toecap	cod	AAH01(HEBEI 701)
metallic penetration-resistant insert	cod	AS71N (ZHONGYUZEN 786 SM)
removable insock	cod	SP181

**Additional requirements:**

- heel area closed;
- A antistatic properties;
- E energy absorption of seat region;
- WRU water resistant upper
- P penetration resistance of sole complex;
- FO fuel oil resistant outsole;
- cleated outsole.

**Test Reports:** The results of tests and examinations are contained in the following test reports:

Whole footwear	CIMAC	RP 2018\2274-1-RP-2	dated	19/10/2018
	CIMAC	RP 2018\2274-1-RP-4	dated	19/10/2018
Upper	CIMAC	RP 2018\2273-1-RP-2	dated	19/10/2018
	CIMAC	RP 2018\2273-1-RP-4	dated	19/10/2018
Lining	CIMAC	RP 2018\2273-1-RP-2	dated	19/10/2018
	CIMAC	RP 2018\2273-1-RP-4	dated	19/10/2018
Collar	CIMAC	RP 2018\2274-1-RP-2	dated	19/10/2018
	CIMAC	RP 2018\2274-1-RP-4	dated	19/10/2018
Insole	CIMAC	RP 2018\2273-1-RP-2	dated	19/10/2018
	CIMAC	RP 2018\2273-1-RP-4	dated	19/10/2018
Removable insock	CIMAC	RP 2018\0973-1-RP-2	dated	15/05/2018
	CIMAC	RP 2018\0973-1-RP-4	dated	15/05/2018
Outsole	CIMAC	RP 2018\2273-1-RP-2	dated	19/10/2018
	CIMAC	RP 2018\2273-1-RP-3	dated	19/10/2018
	CIMAC	RP 2018\2273-1-RP-4	dated	19/10/2018



## Marking

The label inside the footwear shows the following information:

CE Marking (at least 5 mm high)  
Name and postal address of the Manufacturer  
manufacturer's type designation  
the number and year of the reference European standard  
Category and additional requirements of the PPE  
Harmonized pictogram  
Month and year of fabrication  
Size  
Batch number

(\*) Subsystems and safety components which are in conformity with harmonised standards or parts thereof the references of which have been published in the Official Journal of the European Union shall be presumed to be in conformity with the essential requirements set out in Annex II Regulation (EU) 2016/425.

**Validity conditions:** This certificate is valid for 5 years from the date of issue. On expiration the manufacturer shall ask for its renewal. The rules applied are those in force on the date of issue shown on this certificate; The validity of the certificate is no longer guaranteed if substitutive standards are issued before the expiration date.

All changes made to the model and to the materials described in this EU type-examination certificate shall be reported to and approved by CIMAC.


This EC Type-Examination Certificate may be integrally duplicated; the copy must be faithful, legible (if pint size) and must contain the bold caption "TRUE COPY".

This certificate must be kept by the manufacturer to be shown, on request, to the inspection or notifying authorities.

Technical Responsible  
Giuseppe Bellotti



### Cizme impermeabile (cauciuc)

<b>Cizme impermeabile BFPCV 13157</b> Categorie OB E FO SRC		
<b>EN ISO 20347</b>		
<b>Descriere</b>	<p>Cizme impermeabile din PVC, de culoare neagra. Talpa profilată, antiderapanta, rezistentă la ulei. Inaltime 360mm. <b>Ambalaj:</b> pachet polietilena</p>	
<b>Marimi</b>	40 - 47 (EU)	
<b>Producator</b>	Fagum Stomil, Polonia	



## Declarație de conformitate UE

**1. Echipament individual de protecție / poza, denumire, tip /:**



**Încălțăminte profesională din PVC Art. 13157**

**2. Producător / denumire, adresa /:**

**FAGUM - STOMIL Sp. z o.o. 21-400 Łuków, ul.Łapiguz 118**

**3. Această declarație de conformitate este emisă sub responsabilitatea exclusivă a producătorului: FAGUM - STOMIL Sp. z o.o. 21-400 Łuków, ul.Łapiguz 118**

**4. Obiectul declarației / denumire, tipul, marcajul, categoria, destinația de utilizare /: Încălțăminte profesională din PVC Art. 13157**

**Marcaj: OB E FO SRC**

**Categoria II**

**Încălțăminte destinată utilizării la locurile de muncă pe șantierele de construcții și în minele unde nu există riscul de explozie a vaporilor de gaz. Asigură protecția utilizatorului împotriva alunecării (categoria SRC), împotriva apei, uleiurilor și umezelii.**

**5. Obiectul acestei declarații descris la punctul 4 respectă cerințele: Regulamentul (UE) 2016/425 al Parlamentului European și al Consiliului din 9 martie 2016 privind echipamentul individual de protecție și de abrogare a Directivei 89/686 / CEE a Consiliului.**

**6. 7. Trimiteri la standardele armonizate relevante / standard, certificat /:**

**Încălțăminte este conformă cu standardul PN-EN ISO 20347: 2012**

**Certificat de examinare UE de tip nr. IPS-1439-28 / 2018, ediția 1 din 20 noiembrie 2018.**

**Eliberat de: Organismul notificat nr. 1439 Institutul de industrie al pielii, Centrul de certificare, 91-462 Łódź, ul. Zgierska 73**

**8. EIP este supus unei proceduri de evaluare a conformității de tip bazată pe control intern sub supravegherea unui organism notificat / certificat, modul/:**

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.....  
(numele organismului notificat)

**9. Locul și data emiterii, semnătura:**

TECHNOLOG  
Produkcji Wyrabów  
*Ewa Iwaszczuk*  
Ewa Iwaszczuk

**Łuków, 20.11.2018**  
.....

.....  
semnatura

### FR25 - Jacheta Biflame Plus

**Colectie:** Bizflame™ Plus.

**Gama:** Protectie Ignifuga

**Material:** Bizflame™ Plus: 99% bumbac, 1% fibra de carbon 350g

### Informatii despre produs

Aceasta jacheta este confectionata cu benzi reflectorizante HiVis cu cusaturi duble pentru durabilitate sporita. Caracteristicile includ cusaturi triple tighelitate, benzi HiVis pe umeri si brate, fermoar alama ascuns, doua buzunare frontale pe piept cu clapa si inchidere stud. Maneci cu deschidere reglabile

### Standarde

EN ISO 11612 (A1+A2, B1, C1, E2, F1)

EN ISO 11611 Clasa standard / Clasa 2 (A1+A2)

EN 1149 -5

IEC 61482-2 IEC 61482-1-1 (Elim 8.6 CAL/CM<sup>2</sup>)

IEC 61482-2 EC 61482-1-2 APC 1

ASTM F1959/F1959M-12 (ATPV=13.6 Cal/CM<sup>2</sup> (HAF=82%))

### Bizflame™ Plus.

BizFlame Plus a fost dezvoltat și proiectat folosind o țesătură foarte inovatoare rezistentă la flacără cu proprietăți anti-stactice adăugate. Construit din 99% bumbac și împletit cu 1% fibre de carbon. Rezistența excelentă la rupere și la întindere oferă durabilitate, în timp ce fibrele de bumbac de calitate premium oferă țesăturii un confort de neegalat. Fibră de carbon antistatică inerentă.

### Protectie Ignifuga

Această gama de protecție ignifuga din industrie oferă protecție multiplă standard pentru medii periculoase. Aceste produse de ultimă oră sunt rezultatul anilor de experiență combinate cu tehnologia avansată și cercetarea pieței. Angajamentul față de sănătatea, siguranța și confortul purtătorului poate fi văzut în gama largă de produse potrivite pentru toate climatele și utilizările finale.

### Caracteristici

- Protejeaza impotriva caldurii radiante, convective si de contact
- Clasa de protecție 2 sudare
- Buzunare inferioare cu capse
- Buzunare cu capse aplicate in zona pieptului
- Fermoar si capse ascunse
- Mansete si gluga ajustabile pentru o fixare corecta
- Fermoar din alama, durabil rezistent
- Cusături cu triplete pentru o durabilitate suplimentară
- Disponibil in marimi pana la 4XL
- Certificat impotriva stropilor de metal topit
- UPF 40 pentru a bloca 98% din razele UV



**FR25 - Jacheta Biflame Plus**  
**Cod de comodatate: 6203321000**

**Organism de testare**

SATRA Technology Europe Ltd (Organism notificat nr.: 2777)  
 Bracetown Business Park  
 D15 YN2P, Ireland  
 Numarul certificarii: 2777\_\_14402\_01\_\_E00\_00

**Instructiuni de spalare**



**Carton Dimensions/Weight**

Item	Colour	Len	Wid	Hgt	Weight(Kg)	Cubic(m <sup>3</sup> )	EAN13	DUN14
FR25NARS	Navy	43.0	28.0	46.0	0.9080	0.0554	5036108258246	15036108747501
FR25NARM	Navy	43.0	28.0	46.0	0.9480	0.0554	5036108258239	15036108747495
FR25NARL	Navy	43.0	28.0	46.0	0.9680	0.0554	5036108258222	15036108747488
FR25NARXL	Navy	43.0	28.0	46.0	1.0000	0.0554	5036108258253	15036108747518
FR25NARXXL	Navy	43.0	28.0	46.0	1.0400	0.0554	5036108258260	15036108747525
FR25NARXXXL	Navy	43.0	28.0	46.0	1.0700	0.0554	5036108258277	15036108747532
FR25NAR4XL	Navy	43.0	28.0	46.0	1.1500	0.0554	5036108258215	15036108747471

### FR26 - Pantaloni Bizflame Plus

**Colectie:** Bizflame™ Plus.

**Gama:** Protectie Ignifuga

**Material:** Bizflame™ Plus: 99% bumbac, 1% fibra de carbon 350g

### Informatii despre produs

Acesti pantaloni sunt confectionati cu banda reflectorizanta HiVis cu cusaturi duble pentru durabilitate sporita. Caracteristicile includ cusaturi triple tighelite, benzi HiVis pe picioare, buzunare pentru genunchiere, buzunar pentru ruleta, buzunar frontal cu fermoar de alama si deschidere reglabila la picior

### Standarde

EN ISO 11612 (A1+A2, B1, C1, E2, F1)

EN ISO 11611 Clasa standard / Clasa 2 (A1+A2)

EN 1149 -5

IEC 61482-2 IEC 61482-1-1 (Elim 8.6 CAL/CM<sup>2</sup>)

IEC 61482-2 EC 61482-1-2 APC 1

ASTM F1959/F1959M-12 (ATPV=13.6 Cal/CM<sup>2</sup> (HAF=82%))

### Bizflame™ Plus.

BizFlame Plus a fost dezvoltat și proiectat folosind o țesătură foarte inovatoare rezistentă la flacără cu proprietăți anti-stactice adăugate. Construit din 99% bumbac și împletit cu 1% fibre de carbon. Rezistența excelentă la rupere și la întindere oferă durabilitate, în timp ce fibrele de bumbac de calitate premium oferă țesăturii un confort de neegalat. Fibră de carbon antistatică inerentă.

### Protectie Ignifuga

Această gama de protecție ignifuga din industrie oferă protecție multiplă standard pentru medii periculoase. Aceste produse de ultimă oră sunt rezultatul anilor de experiență combinate cu tehnologia avansată și cercetarea pieței. Angajamentul față de sănătatea, siguranța și confortul purtătorului poate fi văzut în gama largă de produse potrivite pentru toate climatele și utilizările finale.

### Caracteristici

- Protejeaza impotriva caldurii radiante, convective si de contact
- Clasa de protecție 2 sudare
- Buzunar posterior
- Buzunar suport rigla
- Fermoar din alama, durabil rezistent
- Cârlig și bucla tivuri pentru o potrivire sigură
- Cusături cu triplete pentru o durabilitate suplimentară
- Certificat impotriva stropilor de metal topit
- Marimi disponibile XS-4XL
- UPF 40 pentru a bloca 98% din razele UV
- Cusătură pe banda industrială de spălare rezistentă la flacără





**FR26 - Pantaloni Bizflame Plus**  
**Cod de comoditate: 6203421100**

**Organism de testare**

SATRA Technology Europe Ltd (Organism notificat nr.: 2777)  
 Bracetown Business Park  
 D15 YN2P, Ireland  
 Numarul certificarii: 2777\_\_14402\_01\_\_E00\_00

**Instructiuni de spalare**



**Carton Dimensions/Weight**

Item	Colour	Len	Wid	Hgt	Weight(Kg)	Cubic(m <sup>3</sup> )	EAN13	DUN14
FR26NARXS	Navy	43.0	28.0	58.0	0.8970	0.0698	5036108289523	15036108779724
FR26NARS	Navy	43.0	28.0	58.0	0.9180	0.0698	5036108258314	15036108747570
FR26NARM	Navy	43.0	28.0	58.0	0.9000	0.0698	5036108258307	15036108747563
FR26NARL	Navy	43.0	28.0	58.0	0.9000	0.0698	5036108258291	15036108747556
FR26NARXL	Navy	43.0	28.0	58.0	1.0000	0.0698	5036108258321	15036108747587
FR26NARXXL	Navy	43.0	28.0	58.0	1.0240	0.0698	5036108258338	15036108747594
FR26NARXXXL	Navy	43.0	28.0	58.0	1.0800	0.0698	5036108258345	15036108747600
FR26NAR4XL	Navy	43.0	28.0	58.0	1.1120	0.0698	5036108258284	15036108747549

# EU Type-Examination Certificate

## Certificate number: 2777/14402-01/E00-00

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation:

Following the EU Type-Examination this product group has been shown to satisfy the applicable essential health and safety requirements of Annex II of the PPE Regulation (EU) 2016/425 as a Category III product.

**Product reference: Description:**

“Bizflame Plus Garments in 350 g/m2 99% cotton 1% antistatic fabric.

- FR25 FR Jacket in navy or orange, one band of silver tape around each arm and over each shoulder. 2 chest pockets, 2 hip pockets with concealed stud fastening
- FR26 FR Trousers in navy or orange, one band of silver tape around each leg. Knee pad pockets and Hip & Rule pocket with flap.
- FR27 FR Bib & Brace Trousers in navy or orange, one band of silver tape around each leg. With chest, rule and back pocket with flaps secured with concealed stud fastening
- FR55 FR Jacket in navy with red or royal blue contrast panels with one band of retro reflective tape around each sleeve and over each shoulder.
- FR56 FR Trousers in navy with red or royal blue contrast panels and one band of retro-reflective tape around each leg.
- FR57 FR Bib & Brace Trousers in navy with red or royal blue contrast panels and one band of retro-reflective tape around each leg.

**Classification:**

**EN ISO 11611:2015**

Limited Flame Spread	A1 & A2
Impact of Spatter	Class 2
Radiant Heat	Class 2
Thermal Resistance to electric arc	Class 2

**EN 1149-5:2018**

Electrostatic properties	Pass
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**IEC 61482-2:2018 (Fabric only)**

Arc Rating (ATPV)	13.6Cal/cm2
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**EN ISO 11612:2015**

Limited Flame Spread	A1 & A2
Convective Heat	B1
Radiant Heat	C1
Moten Iron	E2
Contact Heat	F1

**IEC 61482-1-2:2014**

Arc thermal protection	Class 1
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Standards/Technical specifications applied:

EN ISO 11611:2015; EN ISO 11612:2015; EN 1149-5: 2018; IEC 61482-2:2009 Ed 1; EN ISO 13688 :2013

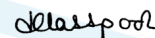
Technical reports/Approval documents:

SATRA: SPC0220887/1351. WYMTS: 73686, 63585-02, 61285-03, 42685, 42685-02, 63585-01.  
Aitex: 2015EP2009, 2015EP2525, 2015EP2017, 2015EP2033, 2017EP0281. STFI: 0605/10. Kinetics: K418444-001-R01/ TNO  
Quality Services: T09.25261  
WYMTS EC Type: EC69768, EC69768-01, EC69768-02, EC69768-03, EC69768-04, EC69768-05

Signed on behalf of SATRA:



Andrew Craggs



Jacque Glasspool

Date first issued: 23/04/2020

Date of issue: 23/04/2020

Expiry date: 23/04/2025

# TERMS AND CONDITIONS

The following conditions apply in addition to SATRA's standard terms and conditions of business and those given in the current certification agreement.

The certificate holder is licensed to mark the products detailed within this certificate in accordance with Annex V (Module B) of the Regulation (EU) 2016/425 of the European Parliament and of the council of 9th March 2016 on personal protective equipment once you have drawn up an EU declaration of product conformity.

Please note:

1. Where the product is classified as category III then CE Marking of production is reliant on current compliance with Regulation 2016/425 module C2 or Module D. (Except that specifically produced to fit an individual user).
2. Full details of the scope of the certification and product(s) certified are contained within the manufacturer's technical documentation.
3. Where a translation of this certificate exists, the English language version shall be considered as the authoritative text.
4. Certification is limited to production undertaken at the sites listed in the manufacturers technical documentation.
5. Ongoing manufactured product shall be consistent with the product(s) certified and listed on this certificate.
6. The Manufacturer shall inform SATRA of any changes to the certified product or technical documentation.
7. Where results obtained during type testing are within the budget of uncertainty when compared to the pass requirement, classification or performance level, then it is the responsibility of the manufacturer to ensure that the factory production control and manufacturing tolerances are such that the product placed on the market meets with the stated requirements, classifications or performance levels.
8. This certificate shall be kept together with the relevant technical documentation in a safe place by the client named on this certificate. Production of this certificate and other documentation may be required by a representative of the EC member state government.
9. This certificate relates only to the condition of the testable items at the time of the certification procedure and is subject to the expiry date shown.
10. SATRA reserves the right to withdraw this certificate if it is found that a condition of manufacture, design, materials or packaging have been changed and therefore no longer comply with the requirements of Regulation 2016/425.

## FR59 - Jacheta de Iarna Antistatica, Ignifuga

**Colectie:** Bizflame™ Plus.

**Gama:** Protectie Ignifuga

**Material:** Bizflame™ Plus: 99% bumbac, 1% fibra de carbon 350g

**Tesatura captuseala:** 100% Captuseala Ignifuga din Bumbac 170g

**Material umplutura:** Strat Intermediar Ignifug, Poliester 100% 150g

### Informatii despre produs

Jacheta este perfecta pentru cerintele industriei offshore. Produsul este confectionat din acelasi material ca articolul FR50, cu captuseala ignifuga din bumbac. Caracteristicile includ benzi reflectorizante, cusaturi duble, cusaturi triple, fermoar reversibil ascuns, buzunare cu clapa, ajustare interioara, gluga detasabila.

### Standarde

EN ISO 11612 (A1+A2 B1, C1, E2, F1)  
 EN ISO 11611 Clasa standard / Clasa 2 (A1+A2)  
 EN 1149 -5  
 EN 342 (0.321 (M<sup>2</sup>.K/W), 2, X)

### Bizflame™ Plus.

BizFlame Plus a fost dezvoltat și proiectat folosind o țesătură foarte inovatoare rezistentă la flacără cu proprietăți anti-stactice adăugate. Construit din 99% bumbac și împletit cu 1% fibre de carbon. Rezistența excelentă la rupere și la întindere oferă durabilitate, în timp ce fibrele de bumbac de calitate premium oferă țesăturii un confort de neegalat. Fibră de carbon antistatică inerentă.

### Protectie Ignifuga

Această gama de protecție ignifuga din industrie oferă protecție multiplă standard pentru medii periculoase. Aceste produse de ultimă oră sunt rezultatul anilor de experiență combinate cu tehnologia avansată și cercetarea pieței. Angajamentul față de sănătatea, siguranța și confortul purtătorului poate fi văzut în gama largă de produse potrivite pentru toate climatele și utilizările finale.

### Caracteristici

- Protejeaza impotriva caldurii radiante, convective si de contact
- Clasa de protecție 2 sudare
- Buzunare frontale inferioare cu inchidere cu scai
- Buzunar interior aplicat pe piept
- Buzunare cu capse aplicate in zona pieptului
- Cordon ajustabil în talie pentru o potrivire confortabilă
- Creat pentru căldură și confort adăugat
- Fermoar din alama, durabil rezistent
- Captusit integral pentru a capta caldura
- Mansete si gluga ajustabile pentru o fixare corecta
- Banda reflectorizanta premium ignifuga .



	Scurt	Reg	Tall	XTall
Navy		S - XXXL		
Portocaliu		S - XXXL		
Albastru Royal		S - XXXL		
Rosu		S - XXXL		

### FR59 - Jacheta de Iarna Antistatica, Ignifuga Cod de comoditate: 6203321000

#### Organism de testare

Numarul certificarii: 2777\_12967\_02\_E00\_00

#### Instructiuni de spalare



#### DIMENSIUNI CARTON / GREUTATE

Produs	Culoare	Lungime	Latime	Inaltime	Greutatea (kg)	Cubic (m <sup>3</sup> )	EAN13	DUN14
FR59NARL	Navy	65.0	45.0	54.0	2.1880	0.1580	5036108224401	15036108711908
FR59NARM	Navy	65.0	45.0	54.0	2.1030	0.1580	5036108224418	15036108711915
FR59NARS	Navy	65.0	45.0	54.0	2.0430	0.1580	5036108224425	15036108711922
FR59NARXL	Navy	65.0	45.0	50.0	2.2820	0.1463	5036108224432	15036108711939
FR59NARXXL	Navy	65.0	45.0	50.0	2.3220	0.1463	5036108224449	15036108711946
FR59NARXXXL	Navy	65.0	45.0	50.0	2.3710	0.1463	5036108224456	15036108711953

## FR58 - Salopeta de Iarna, Antistatica, Ignifuga

**Colectie:** Bizflame™ Plus.

**Gama:** Protectie Ignifuga

**Material:** Bizflame™ Plus: 99% bumbac, 1% fibra de carbon 350g

**Tesatura captuseala:** 100% Captuseala Ignifuga din Bumbac 170g

**Material umplutura:** Strat Intermediar Ignifug, Poliester 100% 150g

### Informatii despre produs

Perfect pentru industria offshore. Salopeta este fabricata din material similar produsului FR50. Caracteristicile includ strat captusit, benzi reflectorizante, cusaturi triple, fermoar ascuns, captuseala ignifuga pentru caldura. Intruneste toate standardele EN inclusiv standarde pentru sudura.

### Standarde

EN ISO 11612 (A1+A2 B1, C1, E2, F1)  
EN ISO 11611 Clasa standard / Clasa 2 (A1+A2)  
EN 1149 -5  
EN 342 (0.321 (M<sup>2</sup>.K/W), 2, X)

### Bizflame™ Plus.

BizFlame Plus a fost dezvoltat și proiectat folosind o țesătură foarte inovatoare rezistentă la flacără cu proprietăți anti-statice adăugate. Construit din 99% bumbac și împletit cu 1% fibre de carbon. Rezistența excelentă la rupere și la întindere oferă durabilitate, în timp ce fibrele de bumbac de calitate premium oferă țesăturii un confort de neegalat. Fibră de carbon antistatică inerentă.

### Protectie Ignifuga

Această gama de protecție ignifuga din industrie oferă protecție multiplă standard pentru medii periculoase. Aceste produse de ultimă oră sunt rezultatul anilor de experiență combinate cu tehnologia avansată și cercetarea pieței. Angajamentul față de sănătatea, siguranța și confortul purtătorului poate fi văzut în gama largă de produse potrivite pentru toate climatele și utilizările finale.

### Caracteristici

- Protejeaza impotriva caldurii radiante, convective si de contact
- Clasa de protecție 2 sudare
- Fermoar lateral pentru acces facil
- Captusit integral pentru a capta caldura
- Deschidere ascunsă cu fermoar pentru mai multă siguranță
- Bretele ajustabile cu inchidere prin catarama rezistente
- Fermoar din alama, durabil rezistent
- Bentita pentru casca
- Bandă complet elastică pentru confortul utilizatorului
- UPF 40 pentru a bloca 98% din razele UV
- Banda reflectorizanta premium ignifuga .



	Scurt	Reg	Tall	XTall
Navy		S - XXXL		
Portocaliu		S - XXXL		
Albastru Royal		S - XXXL		
Rosu		S - XXXL		



**FR58 - Salopeta de Iarna, Antistatica, Ignifuga**
**Cod de comoditate: 6203425100**
**Organism de testare**

Numarul certificarii: 2777\_12967\_02\_E00\_00

**Instructiuni de spalare**

**DIMENSIUNI CARTON / GREUTATE**

Produs	Culoare	Lungime	Latime	Inaltime	Greutatea (kg)	Cubic (m <sup>3</sup> )	EAN13	DUN14
FR58NARL	Navy	55.0	36.0	56.0	1.4800	0.1109	5036108224340	15036108711847
FR58NARM	Navy	55.0	36.0	56.0	1.4200	0.1109	5036108224357	15036108711854
FR58NARS	Navy	55.0	36.0	56.0	1.3600	0.1109	5036108224364	15036108711861
FR58NARXL	Navy	55.0	36.0	56.0	1.5400	0.1109	5036108224371	15036108711878
FR58NARXXL	Navy	55.0	36.0	60.0	1.6000	0.1188	5036108224388	15036108711885
FR58NARXXXL	Navy	55.0	36.0	60.0	1.6600	0.1188	5036108224395	15036108711892

# EU Type-Examination Certificate

## Certificate number: 2777/12967-02/E00-00

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation:

Following the EU Type-Examination this product group has been shown to satisfy the applicable essential health and safety requirements of Annex II of the PPE Regulation (EU) 2016/425 as a Category III product.

Product reference:	Description:
FR52	BizFlame® Plus garments comprised of an FR woven 99% Cotton / 1% Carbon Fibre with antistatic grid outer fabric (350g.m <sup>-2</sup> ) and an FR Wadding (Style FR52: 100g.m <sup>-2</sup> / Styles FR53 / FR58 / FR59: 150g.m <sup>-2</sup> ) quilted to an FR woven Cotton (170g.m <sup>-2</sup> ) lining.  Coverall featuring silver retroreflective tape in one band encircling each sleeve and leg, a band over each shoulder, two slant chest pockets with concealed zip closure, two-flapped hip, one flapped sleeve, one flapped rule pocket and a radio loop.
FR53	Coverall featuring silver retroreflective tape in one band encircling each sleeve and leg, a band over each shoulder, two slant chest pockets with concealed zip closure, one flapped hip, one flapped sleeve, one flapped rule pocket and a radio loop.
FR58	Bib & Brace Trousers featuring silver retroreflective tape in one band encircling each leg.
FR59	Winter Jacket featuring silver retroreflective tape in one band encircling the torso, one band encircling each sleeve, one band over each shoulder, two flapped patch pockets to the front of the lower torso, two slanted chest pockets with stud closures and one internal chest pocket.

**Classification:**

EN ISO 11612:2015	Level	EN ISO 11611:2015	Class 2, A1 & A2
Limited Flame Spread	A1 & A2		
Convective Heat	B1	<b>EN 342:2017, FR53</b>	
Radiant Heat	C1	Thermal Insulation, I <sub>cler</sub>	0.318 m <sup>2</sup> ·k/W
Molten Iron Splash	E2	Air Permeability	Class 2
Contact Heat	F1	<b>EN 342:2017, FR58 &amp; FR59</b>	
		Thermal Insulation, I <sub>cler</sub>	0.321 m <sup>2</sup> ·k/W
<b>EN 1149-5:2018</b>	PASS	Air Permeability	Class 2

Standards/Technical specifications applied:

EN ISO 13688 :2013; EN ISO 11611:2015; EN ISO 11612:2015; EN 342: 2017; EN 1149-5: 2018

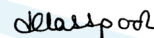
Technical reports/Approval documents:

Garment: 86995; 43966-01  
Fabric: 84191; 2015EP2009; 2016EP0397; 63585-01; 42685, 2019EP0563, SHSL1302031355TX, SHSL1306154808TX, 2011EP1174, 2015EP2525,  
Tape: SPC0255458/1711, SPC0255458/1711tape&labels Hardware: SPC0274860/1835, T09.25261

Signed on behalf of SATRA:



Andrew Craggs



Jacque Glasspool

Date first issued: 09/07/2019

Date of issue: 09/07/2019

Expiry date: 09/07/2024

# TERMS AND CONDITIONS




The following conditions apply in addition to SATRA's standard terms and conditions of business and those given in the current certification agreement.

The certificate holder is licensed to mark the products detailed within this certificate in accordance with Annex V (Module B) of the Regulation (EU) 2016/425 of the European Parliament and of the council of 9th March 2016 on personal protective equipment once you have drawn up an EU declaration of product conformity.

Please note:

1. Where the product is classified as category III then CE Marking of production is reliant on current compliance with Regulation 2016/425 module C2 or Module D. (Except that specifically produced to fit an individual user).
2. Full details of the scope of the certification and product(s) certified are contained within the manufacturer's technical documentation.
3. Where a translation of this certificate exists, the English language version shall be considered as the authoritative text.
4. Certification is limited to production undertaken at the sites listed in the manufacturers technical documentation.
5. Ongoing manufactured product shall be consistent with the product(s) certified and listed on this certificate.
6. The Manufacturer shall inform SATRA of any changes to the certified product or technical documentation.
7. Where results obtained during type testing are within the budget of uncertainty when compared to the pass requirement, classification or performance level, then it is the responsibility of the manufacturer to ensure that the factory production control and manufacturing tolerances are such that the product placed on the market meets with the stated requirements, classifications or performance levels.
8. This certificate shall be kept together with the relevant technical documentation in a safe place by the client named on this certificate. Production of this certificate and other documentation may be required by a representative of the EC member state government.
9. This certificate relates only to the condition of the testable items at the time of the certification procedure and is subject to the expiry date shown.
10. SATRA reserves the right to withdraw this certificate if it is found that a condition of manufacture, design, materials or packaging have been changed and therefore no longer comply with the requirements of Regulation 2016/425.

**ALGERI – jacket**




<p><b>Description</b></p>	<ul style="list-style-type: none"> <li>• 2 breast pockets with velcro,</li> <li>• front opening with zip,</li> <li>• 2 wide front pockets with snap,</li> <li>• adjustable waist and cuff,</li> <li>• longer back side,</li> <li>• pen pocket.</li> </ul> <p><u>Superb colour retention</u> Certified result: 4-5 (range: 1-5)</p>		
<p><b>Maintenance</b></p>	<p>Maximum wash temperature: 40 °C; Do not bleach ; Dry clean with solvents on point F plus Tetrachloroethylene; Do not dry in a tumble dryer; Ironing at low temperature (max 110 °C).</p> 	<p><b>Item</b></p>	<p>V280-0-02 Navy V280-0-04 Anthracite V280-0-05 Black V280-0-08 Green</p>
<p><b>Standards:</b></p>		<p>EN ISO 13688:2013</p> 	
<p><b>Sizes</b></p>		<p>S - 4XL</p>	

**SAFETY TECHNICAL SPECIFICATIONS**

	<i>Test method</i>	<i>Description</i>	<i>Cofra result</i>	<i>Minimum requirement / range</i>
<p><b>Background fabric</b></p>	<p>EN ISO 1833-1977, SECTION 10</p>	<p>Composition:</p>	<p>100% cotton</p>	
	<p>EN ISO 12127:1996</p>	<p>Fabric mass per unit area</p>	<p>245 g/m<sup>2</sup></p>	
	<p>EN ISO 13688:2013 4.2 (ISO 3071)</p>	<p>The pH's determination from the watery extract</p>	<p>pH: 7.0</p>	<p>3,5 ≤pH≤ 9,5</p>
	<p>EN ISO 13688:2013 4.2 (EN 14362-1)</p>	<p>Search of the aromatic and carcinogenic amines</p>	<p>Not recording</p>	<p>≤30 ppm</p>
	<p>EN ISO 13688:2013 5.3 (ISO 5077)</p>	<p>Dimensional change to washing (40°C)</p>	<p>warp: -1.5% weft: - 0.2%</p>	<p>±3%</p>
	<p>ISO 105-X12</p>	<p>Colour fastness to rubbing</p>	<p>Dry: 4 - 5 Wet: 3 - 4</p>	<p>1-5</p>

ISO 105-C06	Colour fastness to Laundering at 40°C			1-5
	<i>Colour change</i>	4-5		
	<i>Staining:</i>			
	diacetate	4		
	cotton	4-5		
	nylon	4-5		
	polyester	3-4		
	acrylic	4-5		
ISO 105 D01	Colour fastness to to dry cleaning			1-5
	<i>Colour change</i>	4-5		
	<i>Staining:</i>			
	diacetate	4-5		
	cotton	4-5		
	nylon	4-5		
	polyester	4-5		
	acrylic	4-5		
ISO 105 E04	Colour fastness to perspiration	Acidic	Alkaline	1-5
	<i>Colour change</i>	4-5	4-5	
	<i>Staining:</i>			
	diacetate	4	4	
	cotton	4-5	4-5	
	nylon	3-4	3-4	
	polyester	4-5	4-5	
	acrylic	4-5	4-5	
EN ISO 105-X11	Colour fastness to hot pressing (110°C);			1-5
	<i>Colour change</i>	Dry: 4-5 Wet: 4-5		
EN ISO 13934-2	Tensile strength	warp: 710 N weft: 290 N		
EN ISO 13937-1	Determination of tear force using ballistic pendulum method (Elmendorf)	weft: 24.4 N warp: 15.7 N		≥ 12 N

**SOUSSE – trousers**

<p><b>Description</b></p>	<ul style="list-style-type: none"> <li>• wide front pockets,</li> <li>• 1 back pocket with velcro ,</li> <li>• hammer loop,</li> <li>• adjustable kneepad pockets,</li> <li>• elasticated waist,</li> <li>• rule pocket,</li> <li>• side pocket ,</li> </ul> <p><u>Superb colour retention</u> Certified result: 4-5 (range: 1-5)</p>		
<p><b>Maintenance</b></p>	<p>Maximum wash temperature: 40 °C; Do not bleach ; Dry clean with solvents on point F plus Tetrachloroethylene; Do not dry in a tumble dryer; Ironing at low temperature (max 110 °C).</p> 	<p><b>Item</b></p>	<p>V281-0-02 Navy V281-0-04 Anthracite V281-0-05 Black V281-0-08 Green</p>
<p><b>Standards:</b></p>		<p>EN ISO 13688:2013</p>	
<p><b>Sizes</b></p>		<p>S - 4XL</p>	

**SAFETY TECHNICAL SPECIFICATIONS**

	<i>Test method</i>	<i>Description</i>	<i>Cofra result</i>	<i>Minimum requirement / range</i>
<p><b>Background fabric</b></p>	<p>EN ISO 1833-1977, SECTION 10</p>	<p>Composition:</p>	<p>100% cotton</p>	
	<p>EN ISO 12127:1996</p>	<p>Fabric mass per unit area</p>	<p>245 g/m<sup>2</sup></p>	
	<p>EN ISO 13688:2013 4.2 (ISO 3071)</p>	<p>The pH's determination from the watery extract</p>	<p>pH: 7.0</p>	<p>3,5 ≤pH≤ 9,5</p>
	<p>EN ISO 13688:2013 4.2 (EN 14362-1)</p>	<p>Search of the aromatic and carcinogenic amines</p>	<p>Not recording</p>	<p>≤30 ppm</p>
	<p>EN ISO 13688:2013 5.3 (ISO 5077)</p>	<p>Dimensional change to washing (40°C)</p>	<p>warp: -1.5% weft: - 0.2%</p>	<p>±3%</p>
	<p>ISO 105-X12</p>	<p>Colour fastness to rubbing</p>	<p>Dry: 4 - 5 Wet: 3 - 4</p>	<p>1-5</p>



ISO 105-C06	Colour fastness to Laundering at 40°C			1-5
	<i>Colour change</i>	4-5		
	<i>Staining:</i>			
	diacetate	4		
	cotton	4-5		
	nylon	4-5		
	polyester	3-4		
	acrylic	4-5		
ISO 105 D01	Colour fastness to to dry cleaning			1-5
	<i>Colour change</i>	4-5		
	<i>Staining:</i>			
	diacetate	4-5		
	cotton	4-5		
	nylon	4-5		
	polyester	4-5		
	acrylic	4-5		
ISO 105 E04	Colour fastness to perspiration	Acidic	Alkaline	1-5
	<i>Colour change</i>	4-5	4-5	
	<i>Staining:</i>			
	diacetate	4	4	
	cotton	4-5	4-5	
	nylon	3-4	3-4	
	polyester	4-5	4-5	
	acrylic	4-5	4-5	
EN ISO 105-X11	Colour fastness to hot pressing (110°C);			1-5
	<i>Colour change</i>	Dry: 4-5 Wet: 4-5		
EN ISO 13934-2	Tensile strength	warp: 710 N weft: 290 N		
EN ISO 13937-1	Determination of tear force using ballistic pendulum method (Elmendorf)	weft: 24.4 N warp: 15.7 N		≥ 12 N

**LEIDA – padded jacket**

**Description**

- central opening closed with zip and snap, internal and external double flap,
- elastic band and coulisse at waistline to enhance adherence of the garment to the body,
- hood with *Thinsulate*<sup>™</sup> padding,
- internal mobile pocket protecting against E-WARD electromagnetic waves,
- neck with *Thinsulate*<sup>™</sup> padding and internal fleece lining,
- pockets closed by YKK<sup>®</sup> zip with double slider and snaps.



**Maintenance**

Maximum wash temperature: 30°C; Do not bleach; Do not dry clean; Do not dry in a tumble dryer ;Do not iron.

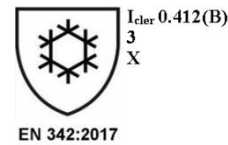


**Item**

V168-0-02 Navy

**EN ISO 13688:2013**

**Standards**



**Sizes**

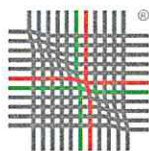
S-4XL

**SAFETY TECHNICAL SPECIFICATIONS**

	Test method	Description	Cofra result	Minimum requirement / range
<b>Background fabric</b>	EN ISO 1833-1977, SECTIONE 10	Composition	100% Nylon Oxford 420 D	
	EN ISO 12127:1996	Weight per unit area	145 g/m <sup>2</sup>	
	EN ISO 13688 :2013 4.2 (EN 14362-1)	Search of the aromatic and carcinogenic amines	Not recording	≤30 ppm
	EN ISO 13688:2013 4.2 (EN ISO 3071)	The pH's determination from the watery extract	pH = 5.9	3,5 ≤pH≤ 9,5
	EN ISO 13688:2013 5.3 (ISO 5077)	Dimensional change to washing after 5 washes (30°C)	warp: -1.4% weft: -1.4%	±3%

	EN 342:2017 4.6.1 (EN ISO 4674-1)	Tear strength	warp: 129 N weft: 114 N	>20 N
	ISO 105 E04	Colour fastness to perspiration <i>Colour change</i> <i>Staining:</i> diacetate cotton nylon polyester acrylic wool	Acidic 4-5 4-5 4-5 4-5 4-5 4-5 4-5 4-5 4-5	Alkaline 4-5 4-5 4-5 4-5 4-5 4-5 4-5
	ISO 105-C06	Colour fastness to laundering at 40°C <i>Colour change</i> <i>Staining:</i> diacetate cotton nylon polyester acrylic wool	4-5 4-5 4-5 4-5 4-5 4-5 4-5	1-5
	ISO 105-X12	Colour fastness to rubbing	Dry: 4-5 Wet: 4-5	1-5
	ISO 105-B02	Colour fastness to light <i>Colour change:</i>	5	1-5
	EN ISO 13934-1	Tensile strength	warp: 1600 N weft: 900 N	
<b>Lining</b>	EN ISO 1833-1977, SECTIONE 10	Composition	100% Polyester	
	EN ISO 12127:1996	Weight per unit area	55 g/m <sup>2</sup>	
<b>Pile</b>	EN ISO 1833-1977,SECTIONE 10	Composition	100% Polyester	
	EN ISO 12127:1996	Weight per unit area	280 g/m <sup>2</sup>	
<b>Padding</b>	EN ISO 1833-1977,SECTIONE 10	Composition	100% Polyester (Thinsulate®)	
	EN ISO 12127:1996	Weight per unit area	1 layer G150 150 g/m <sup>2</sup>	

<b>Reflex</b> retro reflective fabric D6110	EN ISO 20471:2013/A1:2016 6.1	Retro reflective performance requirements of new material	PASS																																																																																																																																																																																					
	EN ISO 20471:2013/A1:2016 6.2	Requirements of retro reflective performance after tests for abrasion, flexion, folding at cold temperature, temperature variations, washing (50 cycles ISO 6330 at 60°C) and rain influence.	PASS	$R' \geq 100 \text{ cd/(lx m}^2\text{)}$																																																																																																																																																																																				
<b>Leida+Grado</b>	EN 342:2017 6.3 (EN ISO 15831)	Measurement of thermal insulation by means of a thermal manikin	after 5 washes a 30°C $I_{cler} 0.412 \text{ [m}^2\text{K/W]}$																																																																																																																																																																																					
<table border="1"> <thead> <tr> <th colspan="13">Table B: resultant effective thermal insulation of clothing <math>I_{cler}</math> and ambient temperature conditions for heat balance at different activity levels and duration of exposure</th> </tr> <tr> <th rowspan="3">thermic insulation <math>I_{cler}</math> [m<sup>2</sup> K/W]</th> <th colspan="12">moving activity</th> </tr> <tr> <th colspan="2">-</th> <th colspan="2">-</th> <th colspan="2">light</th> <th colspan="2">light</th> <th colspan="2">medium</th> <th colspan="2">medium</th> </tr> <tr> <th colspan="2">75 W/m<sup>2</sup></th> <th colspan="2">75 W/m<sup>2</sup></th> <th colspan="2">115 W/m<sup>2</sup></th> <th colspan="2">115 W/m<sup>2</sup></th> <th colspan="2">170 W/m<sup>2</sup></th> <th colspan="2">170 W/m<sup>2</sup></th> </tr> <tr> <th></th> <th colspan="2">air speed 0,4 m/s</th> <th colspan="2">air speed 3 m/s</th> <th colspan="2">air speed 0,4 m/s</th> <th colspan="2">air speed 3 m/s</th> <th colspan="2">air speed 0,4 m/s</th> <th colspan="2">air speed 3 m/s</th> </tr> <tr> <th></th> <th>8h</th> <th>1h</th> <th>8h</th> <th>1h</th> <th>8h</th> <th>1h</th> <th>8h</th> <th>1h</th> <th>8h</th> <th>1h</th> <th>8h</th> <th>1h</th> </tr> </thead> <tbody> <tr> <td>0,265</td> <td>13</td> <td>0</td> <td>19</td> <td>7</td> <td>3</td> <td>-12</td> <td>9</td> <td>-3</td> <td>-12</td> <td>-28</td> <td>-2</td> <td>-16</td> </tr> <tr> <td>0,310</td> <td>10</td> <td>-4</td> <td>17</td> <td>3</td> <td>-2</td> <td>-18</td> <td>6</td> <td>-8</td> <td>-18</td> <td>-36</td> <td>-7</td> <td>-22</td> </tr> <tr> <td>0,390</td> <td>5</td> <td>-12</td> <td>13</td> <td>-3</td> <td>-9</td> <td>-28</td> <td>0</td> <td>-16</td> <td>-29</td> <td>-49</td> <td>-16</td> <td>-33</td> </tr> <tr> <td><b>0,412</b></td> <td><b>3,6</b></td> <td><b>-14,2</b></td> <td><b>11,4</b></td> <td><b>-4,7</b></td> <td><b>-11,2</b></td> <td><b>-30,8</b></td> <td><b>-1,7</b></td> <td><b>-18,2</b></td> <td><b>-32,0</b></td> <td><b>-52,0</b></td> <td><b>-18,2</b></td> <td><b>-35,8</b></td> </tr> <tr> <td>0,470</td> <td>0</td> <td>-20</td> <td>7</td> <td>-9</td> <td>-17</td> <td>-38</td> <td>-6</td> <td>-24</td> <td>-40</td> <td>-60</td> <td>-24</td> <td>-43</td> </tr> <tr> <td>0,500</td> <td>-2,1</td> <td>-22,6</td> <td>5,7</td> <td>-11,1</td> <td>-20</td> <td>-41</td> <td>-8,1</td> <td>-26,6</td> <td>-43,8</td> <td>-64,7</td> <td>-27,4</td> <td>-46,8</td> </tr> <tr> <td>0,540</td> <td>-5</td> <td>-26</td> <td>4</td> <td>-14</td> <td>-24</td> <td>-45</td> <td>-11</td> <td>-30</td> <td>-49</td> <td>-71</td> <td>-32</td> <td>-52</td> </tr> <tr> <td>0,620</td> <td>-10</td> <td>-32</td> <td>0</td> <td>-20</td> <td>-31</td> <td>-55</td> <td>-17</td> <td>-38</td> <td>-60</td> <td>-84</td> <td>-40</td> <td>-61</td> </tr> </tbody> </table>					Table B: resultant effective thermal insulation of clothing $I_{cler}$ and ambient temperature conditions for heat balance at different activity levels and duration of exposure													thermic insulation $I_{cler}$ [m <sup>2</sup> K/W]	moving activity												-		-		light		light		medium		medium		75 W/m <sup>2</sup>		75 W/m <sup>2</sup>		115 W/m <sup>2</sup>		115 W/m <sup>2</sup>		170 W/m <sup>2</sup>		170 W/m <sup>2</sup>			air speed 0,4 m/s		air speed 3 m/s		air speed 0,4 m/s		air speed 3 m/s		air speed 0,4 m/s		air speed 3 m/s			8h	1h	8h	1h	8h	1h	8h	1h	8h	1h	8h	1h	0,265	13	0	19	7	3	-12	9	-3	-12	-28	-2	-16	0,310	10	-4	17	3	-2	-18	6	-8	-18	-36	-7	-22	0,390	5	-12	13	-3	-9	-28	0	-16	-29	-49	-16	-33	<b>0,412</b>	<b>3,6</b>	<b>-14,2</b>	<b>11,4</b>	<b>-4,7</b>	<b>-11,2</b>	<b>-30,8</b>	<b>-1,7</b>	<b>-18,2</b>	<b>-32,0</b>	<b>-52,0</b>	<b>-18,2</b>	<b>-35,8</b>	0,470	0	-20	7	-9	-17	-38	-6	-24	-40	-60	-24	-43	0,500	-2,1	-22,6	5,7	-11,1	-20	-41	-8,1	-26,6	-43,8	-64,7	-27,4	-46,8	0,540	-5	-26	4	-14	-24	-45	-11	-30	-49	-71	-32	-52	0,620	-10	-32	0	-20	-31	-55	-17	-38	-60	-84	-40	-61
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EN 342:2017 6.4 (EN ISO 9237)	Determination of the permeability of fabrics to air	after 5 washes a 30°C AP <1mm/s CLASS 3	$AP \text{ (mm/s)}$ $AP > 100$ $5 < AP < 100$ $AP < 5$	CLASS 1 2 3																																																																																																																																																																																				



**CENTROCOT**  
Innovation experience



Notified Body n. 0624

© Centro Tessile Cottoniero e Abbigliamento S.p.A.  
1 - Piazza S. Anna, 2 - 21052 Busto Arsizio (VA)  
tel. +39 0331 696711 - fax +39 0331 690056

## EU TYPE-EXAMINATION CERTIFICATE

No **CE 0460190087 -00 -00**

According to "Regulation (EU) 2016/425 of the European Parliament and of the Council" of 9<sup>th</sup> March 2016 on Personal Protective Equipment and repealing Council Directive 89/686/EEC

**Centro Tessile Cottoniero e Abbigliamento S.p.A.**  
**P.zza Sant'Anna, 2 - 21052 Busto Arsizio (VA) - Italia**

**EEC Notified Body N° 0624**

- in view of the firm's application submitted on: 22.06.2018;
- in view of the positive results of the Technical File verification submitted by the manufacturer together with the above mentioned request;
- in view of the manufacturer's declaration stated in the Technical File attached to the above mentioned request
- having verified that technical specification of design and manufacture is in compliance with basic requirements specified in annex II of Regulation (EU) 2016/425 and that technical manufacturing documentation is in compliance with above mentioned specifications;
- in view of the positive test results carried out on the basic model representative of production according to paragraph 4 of annex V of Regulation (EU) 2016/425 and to Standards:

**EN 342:2017**

Issues to:

**COFRA S.r.l.**  
**Via dell'Euro 53-57-59, 76121 Barletta BT**

the EU Type-Examination Certificate concerning the following PPE model:

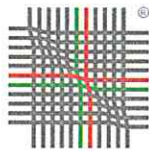
**GARMENT for protection against cold**

**Parka art. LEIDA code. V168-0-02**  
**trousers art GRADO code V167-0-02**

Category: **II** (second)







## Basic type description

### LEIDA code V168-0-02

Jacket with high collar, removable hood with automatic buttons at the back, set in sleeves with elastic knitted cuffs, central opening closed by zipper covered by flap with snaps, elastic belt at the back, two patch pockets on the chest covered by flap closed by hook and loop tape, two welt pockets in the front covered with flap closed by hook and loop tape, retroreflective band encircling chest and sleeves.

Outer shell:

100% PA, 145g/m<sup>2</sup> art.TD075 420D with PU coating.

Padding:

100% PES 150 g/m<sup>2</sup>- Thinsulate

Inner lining:

100% PES - 55 g/m<sup>2</sup>

Retroreflective tape:

art 8906 silve/grey - 3M

Collar knitted fabric

100% PES 280 g/m<sup>2</sup>

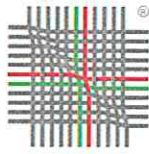


### GRADO code V167-0-02

Overalls with elastic shoulder straps and plastic snap buckle, central opening closed by zipper covered by flap closed by snap and buttonhole upside, two patch pocket frontside covered by flap closed by hook and loop tape, two patch pocket on legs covered by flap closed by hook and loop tape, inner elastic belt on the back, lateral opening from the sides to the bottom closed by zipper cover by flap and snaps, one retroreflective band which encircling each legs







## Variations description

Retroreflective tape

**V168-5-02 Leida**  
**V167-5-02 Grado**

Same as the basic type with retroreflective band:  
art D6110 silver/grey

**V168-7-02 Leida**  
**V167-7-02 Grado**

Same as the basic type with retroreflective band:  
art D1002 silver/grey

Shape

Garment can be manufactured with the following shape variants:

- with garment customization with embroidery and transfer.
- with increased length
- without retroreflective bands
- with hook and loop tape replaced by snaps, vice versa.
- cuffs closed with snaps.
- with added pockets
- with gaiters manufactured with the same lining fabric.

## Sizes

From S to 4XL

## Standards

EN ISO 13688:2013

Protective clothing - general requirements

EN 342:2017

Suits and clothing for protection against the cold

## Performance levels

UNI EN 342

0.412 (B)

$I_{cl,er}$  thermal insulation to outer clothing surface with underwear type B

class 3

Air permeability

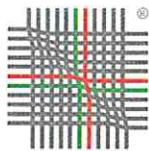
## Tests

The test results are included in the report: 18RA09731, 18RA09735.

## Marking

The following information are listed on the label inside the garment:

- EC marking
- Company name
- Article code
- Standards
- Standardized pictograms
- Maintenance symbols
- Fabric composition
- PPE category



## Validity

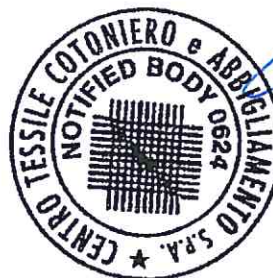
- This certificate has 5-year validity from issue date. On expiration date the Manufacturer will be responsible to require the renewal.
- The applied standards are the ones currently valid at issue date of this Certificate. The certificate validity is not ensured in case of reviewed standards before the expiry date.
- Any change on model and materials object of this Certificate shall be notified and then approved by Centrocot.

This certificate must be filed by the manufacturer and must be shown, if requested, to the Body that performs controls or to the surveillance authority

Busto Arsizio,

Issue date:  
1<sup>st</sup> February 2019

Expiry date:  
1<sup>st</sup> February 2024



General Manager  
*Dr. Grazia Cerini*

# MUKUA

## MK022CV

### SHORT SLEEVE T-SHIRT 155



#### COLOR

	103 - sand		104 - brown
	200 - black		201 - dark grey
	202 - heather grey		301 - orange
	305 - gold		400 - red
	403 - wine		406 - fuchsia
	500 - navy		501 - sky blue
	502 - royal blue		505 - atoll
	511 - purple		601 - khaki
	600 - kelly green		602 - bottle green
	604 - lime		605 - real green

#### SIZE

**S / M / L / XL / 2XL / 3XL / 4XL / 5XL**



**King  
Size**

PALM

### DETAILS

Short-sleeved T-shirt. 150 gsm

Round neckline with ribbed knit trims 1X1 with elastane to increase elasticity.

Seam cover in the same fabric, reinforced at the shoulders, neck and back.

Tubular fabric.

Soft to the touch.

Removable label.

Regular Fit

Previous name: CLASSIC

Perfect for serigraphy, digital printing, transfer, transfer-printing, printed vinyl transfer or vinyl-cut transfer.

### COMPOSITION

TUBULAR SINGLE JERSEY. 100% RINGSPUN COTTON  
150 GSM

