



Eurosul Fornecedora de Navios Ltda

Rua Jaguariaiva, nº 596, Sala 01 – Pinhais/PR Alphaville Graciosa – Cep: 83.327-076

Email: vendas3@eurosul.com

CNPJ: 03.178.524/0001-65 - Insc. Est.: 90186639-26



BOLETIM TÉCNICO



| Descrição: | | ROUPA DE BOMBEIRO – (CALÇA – BLUSÃO) | | | | | |
|---|-------------|--------------------------------------|-----------------------|----------------|-------|-----------|--|
| Código do Produto: | | 90524 | | Importado por: | | Eurosul | |
| Modelo: | | ZFMH-FZ | | Fabricante: | | FangZhan | |
| Aprovação | CE 469:2005 | | | • | | , | N.MED037121WS/006 N.MED004221WS/006 |
| PRODUTO IMPORTADO NÃO POSSUI CERTIFICADO C.A. PELO MINISTÉRIO DO TRABALHO | | | Classificação Fiscal: | | scal: | 6203.2300 | |
| Especificação: | | | | | | | |

Vestuário (Roupa) de proteção contra incêndio para bombeiros (Calça/Blusão) modelo: ZFMH-FZ de acordo com Norma Européia EN469:2005 destina-se a bombeiros e empresas sociais a tempo inteiro ou a tempo parcial, para combate a incêndio, em caso de emergência.

Tamanho: L (Grande) COR: Azul Marinho

PRODUTO FABRICADO DENTRO DAS NORMAS INTERNACIONAIS EUROPEIA C.E. 469:2005, SOLAS MED COM CERTIFICADO DE APROVAÇÃO EXPEDIDO PELO SEU PAÍS DE ORIGEM CLASSIFICADORA RINA CERTIFICADO DE EXAMINAÇÃO (MODULO B) N. MED037121WS/006 E (MODULO D) N.

MED004221WS/006





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Especificações dos produtos:

As roupas de proteção contra incêndio de bombeiros de acordo com a EN469: 2005 são projetadas para bombeiros e empresas sociais bombeiros em tempo integral ou parcial, incêndio diário, emergência (mas sem produtos químicos perigosos, gás, vírus, radiação nuclear e outros ambientes especiais vestindo), quando o relevo se desgasta.

1. Estrutura do Produto:

Os bombeiros usam roupas de proteção contra incêndio usando uma estrutura internacional comum de quatro (múltiplas) camadas

- ◆ camada de superfície (tecido de fibra de aramida retardador de chama permanente resistente a altas temperaturas)
- ◆ camada impermeável respirável (complexo de membrana impermeável respirável de tecido spunlace de aramida e alto desempenho)
- ◆ camada isolante (spunlace de isolamento de aramida)
- ◆ camada de conforto (Kevlar mistura materiais retardantes de chama e musselina de conforto de alto desempenho)

O principal desempenho técnico:

2. Especificações Técnicas

- ◆ propriedades retardantes de chama do tecido: comprimento do dano ≤90mm, tempo de queima contínuo ≤2s
- ◆ resistência do tecido: resistência ao rasgo ≥ 100N, resistência à ruptura ≥ 850N
- ◆ estabilidade térmica: Após 260 ± 5 °C teste de estabilidade térmica, o encolhimento de urdidura e trama ≤2%
- ♦ camada impermeável respirável de pressão hidrostática lavada após 25 vezes maior que 50KPa, propriedades permeáveis ao vapor de água ≥ 5000g / m² 24h, de acordo com o óleo ≥ grau 3
- ♦ estrutura de quatro camadas de TPP> 32cal / cm²9. Horizontes visíveis superiores a 120°.



EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED037121WS/006

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2020/1170.

MED Item Nº

MED/3.3a

Description

Fire-fighter's outfit: protective clothing (close proximity clothing): (a) Protective non reflective clothing for fire fighting

ZFMH-FZ

Type Applicant

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO.,

LTD.

BUILDING.41.NO.1-42, LANE 83

NORTH HONGXIANG ROAD, WANXIANG TOWN 1/8

PUDONG NEW AREA, SHANGHAI, CHINA

EN 469 (2005) including A1(2006) and AC(2006)

SOLAS 74 Reg.II-2/10, IMO Res.MSC.36(63)-(1994 HSC Code) 7, IMO Res.MSC.97(73)-(2000 HSC Code) 7, IMO Res.MSC.98(73)-(FSS Code) 3.

Issued in SHANGHAI on February 3, 2021

Testing standards

Reference standards

This Certificate is valid until February 2, 2026

This Certificate consists of this sheet plus an attachment

RINA Services S.p.A.

RINA Services S.p.A. Via Corsica, 12 - 16128 Genova Tel +39 010 53851 Fax +39 010 5351000





ATTACHMENT TO CERTIFICATE No. MED037121WS/006 Page 1 of 3

Manufacturer SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

Place of Manufacturer **BUILDING.41** NO.1-42 LANE 83 NORTH HONGXIANG ROAD **WANXIANG TOWN** PUDONG NEW AREA SHANGHAI CHINA

Name & place of Authorised Representative ANTONIO TRANI (FTTM SRL) VIA DOMENICO CIMAROSA NO.37, NAPOLI, ITALY ITALY

Product Description

Fire-fighter's outfit (Protective Clothing, Type: ZFMH-FZ), comprising jacket and trousers with reflective bands to be use only against radiant heat as described below:

High neck with Velcro closure; Front and Side opening with Zipper covered by a flap closed by Velcro; Inner knitted cuffs; Pockets & Trouser legs closed by flaps and Velcro; And reflective band of total width 50 mm, reflecting silver material 20 mm wide in the middle, bordered symmetrically with yellow bands.

Material Main Characteristics

Fabric Assembly:

Four Layer Fire-retardant Fabric with detail as below:

- Outer Shell: YM6019 (195±9.75 g/m²), Aramid Flame Retardant Fabric (Grid Reinforced Cloth);
- Waterproof Breathable Layer: SPF70 (108±5.4 g/m²), Flame Retardant PTFE Waterproof Breathable Layer;
- Insulation Layer: F70 (72±3.6 g/m²), Aramid Spunlaced Insulation;
- Comfort Layer: YM6026 (120±6 g/m²), Aramid Fiber and Flame Retardant Fabric.

Cuffs: Knitted Fabric, manufactured by Shanghai Mingqian Industrial Co., Ltd

Zipper: Plastic and Metal Flame Retardant (Fireproof) Zipper, manufactured by Shenzhen Huofeng Zipper Co., Ltd

Velcro: Nylon FR, manufactured by Shanghai Qiuming Textile Co., Ltd Reflective band: Yellow/Silver/Yellow, manufactured by 3M Co., Ltd

Levels of Performance:

Heat Transfer- Flame: LEVEL Xf2: Heat Transfer- Radiation: LEVEL Xr2;

Resistance to Water Penetration (Moisture Barrier): LEVEL Y2; Resistance to Water Penetration (Seamed Specimen): LEVEL Y2;

Water Vapour Resistance: LEVEL Z1

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Simline





ATTACHMENT TO CERTIFICATE No. MED037121WS/006 Page 2 of 3

Continued:

Reference Documents

- Technical Drawing, issued by Shanghai Fangzhan Fire Technology Co., Ltd and approved by RINA with No. SHFP-9161;
- Technical Specification, issued by Shanghai Fangzhan Fire Technology Co., Ltd and approved by RINA with No. SHFP-9162;
- Bill of Material, issued by Shanghai Fangzhan Fire Technology Co., Ltd and approved by RINA with No. SHFP-9246.

Tests Carried Out

- Test Report (Ref No. 2015154, issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-saving Appliances and filed by RINA with No. SHFP-9164;
- Test Rport [Plastic Flame Retardant (Fireproof) Zipper] (Ref No. AJHG1411003000FB), issued by SGS-CSTC Co., Ltd. Anji Branch and filed by RINA with No.: SHFP-9214;
- Test Report [Metal Flame Retardant (Fireproof) Zipper] (Ref No. AJHG1503001670FB & AJHG1503001669FB), issued by SGS-CSTC Co., Ltd. Anji Branch and filed by RINA with No. SHFP-9215 & SHFP-9216;
- Test Report [Metal Flame Retardant (Fireproof) Zipper] issued by China National Fire Equipment Quality Supervision Certre and filed by RINA with No. SHFP-9217;
- Test Report (Nylon Adhesive) (Ref No. SHIN1512057717PS), issued by issued by SGS-CSTC Co., Ltd. Anji Branch and filed by RINA with No.: SHFP-9247.

Remarks

The product or packing is to be marked with name of manufacturer and type designation according to EN 469, Para.7 and the MED Mark of Conformity.

Additional information as specified in EN 340 shall be supplied by the manufacturer in the official language(s) of the state of destination.

The protective suit is not designed to be used for entering into fire.

Storage, handling, cleaning, use and restrictions for use to be in accordance with the manufacturer's instructions.

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ATTACHMENT TO CERTIFICATE No. MED037121WS/006 Page 3 of 3

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a

Notified Body

XXXX/YVVV

"WHEELMARK FORMAT"

Notified Body number undertaking surveillance module XXXX The year in which the mark is affixed YYYY

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.







PRODUCTION QUALITY ASSURANCE (MODULE D) CERTIFICATE No. MED004221WS/006

This is to certify that RINA Services S.p.A. did undertake the relevant quality assessment procedures for the equipment of the manufacturer identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of (EU) 2020/1170 and according to the type described in the EC Type Examination Certificate (Module B) below indicated.

MED Item No

MED/3.3a

Description

Fire-fighter's outfit: protective clothing (close proximity clothing); (a)

Protective non reflective clothing for fire fighting

Type

Applicant

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

BUILDING 41

NO.1-42 LANE 83

NORTH HONGXIANG ROAD

WANXIANG TOWN PUDONG NEW AREA

SHANGHAI

CHINA

Module B certificate

Number

Date **Notified Body** MED037121WS/006

02/03/2021 RINA (No. 0474)

Issued in SHANGHAI on February 8, 2021

This Certificate is valid until September 24, 2023

This Certificate consists of this sheet plus an attachment

This certificate authorises the Manufacturer or his authorised representative established within the Community in conjunction with the EC TYPE EXAMINATION (MODULE B) CERTIFICATE to affix the following symbol on the equipment above identified.

0474/YYYYY

The year in which the mark is affixed







ATTACHMENT TO CERTIFICATE No. MED004221WS/006

Equipment: ZFMH-FZ

Manufacturer

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

Place of Manufacturer BUILDING.41 NO.1-42 LANE 83 NORTH HONGXIANG ROAD WANXIANG TOWN PUDONG NEW AREA SHANGHAI CHINA

Name & place of Authorised Representative ANTONIO TRANI (FTTM SRL) VIA DOMENICO CIMAROSA NO.37, NAPOLI ITALY

Technical documentation

| INTERMEDIATE SCHEDULED AND UNSCHEDULED AUDITS | | | | | | |
|---|--|----------------------|--|--|--|--|
| Due Date | Carried out on | Surveyor's signature | 6 | | | |
| 09/24/2021 | A PART OF A PART OF THE PART O | ~urveyor s signature | Surveyor's stamp | | | |
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| Unscheduled | | | | | | |

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant
- c) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- d) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- e) RINA may revoke the approval in the case of modifications to requirements or conditions for the approval
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved

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prior to it being placed on toard vessels to which the amended regulations or standards apply.

g) This certificate loses its validity in case the EC type Examination (Module B) certificate is no more valid.

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RINA Services S.p.A

