

## 150n Warp Spandex Thermal Insulation Suit Proximity Type for Fire Fighting

Our Product Introduction

### Basic Information

- Minimum Order Quantity: 1PC
- Stock: 1PC



### Product Specification

- Model NO.: Thermal Insulation Suit
- Tearing Force: Warp And Weft Tearing Strength  $\geq 150n$
- Fracture Strength: Warp And Weft Dry Fracture Strength  $\geq 623n$
- Trademark: KLSK
- Origin: Nanjing, China
- HS Code: 63072000
- Supply Ability: 500/Month
- Usage: Fire Fighting
- Function: Thermal Insulation
- Thickness: Medium
- Length: General Long
- Material: Spandex
- Hydrostatic Resistance:  $\geq 17kpa$
- Samples: US\$ 847/Piece 1 Piece(Min.Order) | Request Sample



### More Images



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## Product Description

### High-performance thermal insulation suit (proximity type)



High-performance thermal insulation clothing (proximity type) is mainly used for thermal protection of the high-temperature working environment of firefighters, which can effectively avoid the transmission of external heat to the human body in the form of heat convection, thermal radiation and heat conduction, and has better performance to slow down and prevent heat transfer, so as to avoid heat sources causing harm to the human body. Products meet the requirements of GA634-2015 standard.

#### >>> Main structure

Split type or conjoined type. Components included: insulated tops, insulated pants, insulated head covers, insulated gloves, insulated feet. The garment is a four-layer structure: divided into an outer layer (using high-brightness aluminum), a waterproof and breathable layer (aramid felt composite PTFE film), an insulation layer (aramid spun felt), and a comfort layer (made of 50% aramid and 50% flame retardant viscose blend).

#### >>> Characteristics of each part:

2.1 Thermal insulation head cover: There is an overlapping part of  $\geq 200\text{mm}$  between it and the top. The insulated hood is equipped with a window, made of colorless or light-colored transparent heat-resistant material with a certain strength and rigidity, and has a gold-plated coating, wide field of view, good light transmittance.

2.2 Insulated top: There is an overlapping part of  $\geq 200\text{mm}$  between the insulated top and the insulated pants, and the top is equipped with an empty pager rucksack. The cuffs of the insulated top have overlapping parts of  $\geq 200\text{mm}$  with the insulated gloves, which can effectively prevent debris from entering the sleeves.

2.3 Thermal insulation pants: Insulated pants are used to provide protection for the lower limbs and legs, and the trouser legs cover the outside of the fire extinguishing protective boots and boot barrels, which can effectively prevent debris from entering.

2.4 Thermal insulation gloves: the palms are covered with leather, which increases the wear resistance and thermal insulation performance, and there is  $\geq 200\text{mm}$  overlap between the multi-layered fabric of the insulated jacket sleeves.

2.5 Insulated foot cover: The insulated foot cover is worn outside the fire extinguisher protective boots, covering the entire boot surface to provide protection for the feet, and there is an overlap of  $\geq 300\text{mm}$  between the multi-layered material of the insulated pants.

#### >>> Main performance requirements:

3.1 Outer layer and thermal insulation layer performance requirements

Flame retardant performance: damage length  $\leq 100\text{mm}$ , continuous combustion time of 0s, no melt dripping phenomenon.

Fracture strength: warp and weft dry fracture strength  $\geq 623\text{N}$ .

Tearing force: Warp and weft tearing strength  $\geq 150\text{N}$ .

Peeling strength: If the composite layer can be separated from the substrate, the warp and weft peeling strength  $\geq 9\text{N}/30\text{mm}$ . Hydrostatic resistance  $\geq 17\text{kpa}$ .

Thermal stability performance: After the thermal stability performance test of  $260^\circ\text{C}$ , the size change rate along the longitude and latitude  $\leq 10\%$ .

Bending resistance: After 5000 consecutive bends, there will be no lamination or shedding of composite fabrics or fibers. The reflectivity of radiant heat  $\geq 80\%$ .

3.2 Comfort layer: with flame retardant performance, ignition time  $\leq 2\text{s}$ . There is no melt dripping phenomenon.

3.3 Overall radiation permeability performance: Under the radiation heat source of  $0.4\text{kW}/\text{m}^2$ , after irradiation for 60s, the inner surface heating  $\leq 25^\circ\text{C}$ .

★3.4 Overall thermal protection performance: The overall thermal protection performance value  $\geq 35$ .

3.5 Seam breaking strength:  $\geq 600\text{N}$ .

3.6 Sewing thread high temperature resistance performance: under the condition of temperature  $260^\circ\text{C} \pm 5^\circ\text{C}$ , within 5 minutes, there is no melting and burning phenomenon.

3.7 Pitch Density: Chiaroscuro lines 9 stitches per  $3\text{cm} \geq 7$  stitches per  $3\text{cm} \geq$ .

3.8 Heat-resistant head cover window transmittance: The light transmittance of colorless transparent and light colored windows  $\geq 85\%$  and  $43\%$  respectively.

3.9 Resistant to ambient temperature:  $\geq 90^\circ\text{C}$ .

★ 3.10 radiated heat resistance:  $\geq 1000^{\circ}\text{C}$ .

3.11 This garment is easy to wear, loose in structure, there is no restriction on running, climbing, jumping and other actions, it is not easy to cause hook hanging, the assembly is firm, and strengthening measures are taken in the parts that are easy to be injured to meet the requirements of coordination and comfort.

★ 3.12 Soak in hot water above  $90^{\circ}\text{C}$  for 20 minutes, rub vigorously, and the surface layer will not fall off, rise and other obvious changes.

★ 3.13 Sewing thread ignited without melting phenomenon.

### >>>Why choose KELISAIKE?

1. Mutual benefit : We are a Industry and trade integrated enterprise. You only pay for production cost and our interest. That made our price cheaper in the same quality.

2. Professional engineers: We have 3 engineers who have more than 10 years' experience and over 5 engineer assistants in gas detection line, with Hi-Tech equipments, we make more accurate and stable products.

3. Customize : We have strong R&D team, can custom product as your request.

4. Free OEM service : (a) Silk-printing your Logo( $\geq 100\text{PCS}$ ). (b) Design your color box( $\geq 500\text{PCS}$ ).

5. Mix order : We accept mix order, different model and small quantity order.

6. After service:(a) 1 Year warranty. (b) If you found any inferior-quality products from us, we will send new ones to replace for free in your next order after confirmed.

### >>>FAQ

**Q: Are you a manufacturer?**

A: Sure, we are the professional safety equipments manufacturer, we have experience of produce and market over 12 years in this field.

**Q: Are you provide customization?**

A: Yes, including gas type, gas detecting range, gas alarm point etc. please contact us about the detailed specifications.

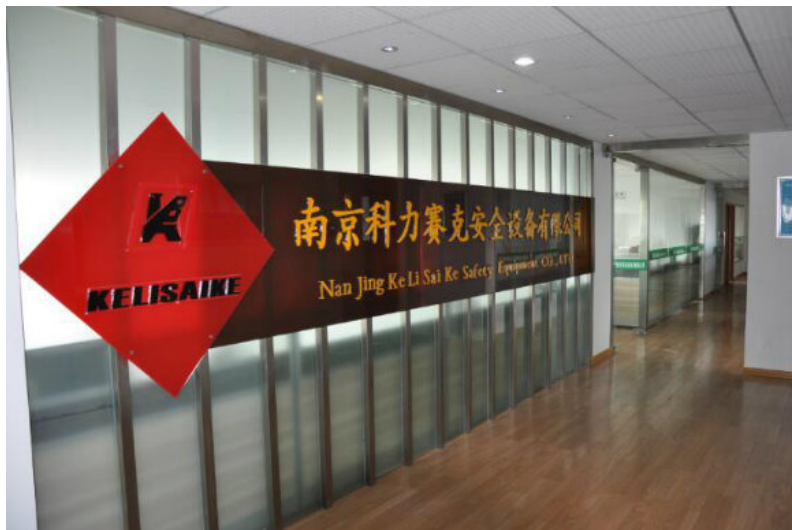
**Q: Can I order one piece for sample to test the quality?**

A: Yes, We recommend to check the sample before order.

**Q: If I order big quantity, what's the good price?**

A: Please send the details enquiry to us, such as the Item Number, Quantity for each item, Quality request, Logo, Payment Terms, Transport method, Discharge place etc. We will make the accurate quotation to you as soon as possible.

### >>>Company View



**Nanjing KELISAIKE Safety Equipment Co., Ltd.** is one of the largest safety equipment manufacturers in mainland China, possessing the most complete product range and specifications in the safety equipment industry. Founded in 2004, Nanjing KELISAIKE has three subsidiaries in Beijing, Xi'an and Xinjiang province, and over 30 domestic sales service centers.

Standard products include the K60 series portable single gas detectors, K60-IV series multi gas detectors, K800 series fixed gas transmitters, K500 series wall-mounted gas detectors, K1000 series gas detector control panel units, KL99 series air breathing apparatuses, etc. Nanjing KELISAIKE is also a factory with rich experience in OEM service, providing professional design and manufacturing of customized products. The company's products are widely used in fields of petroleum, chemical, gas transmission and distribution, warehousing, municipal gas supply, fire fighting, environmental protection, metallurgy, pharmacy, energy and power industry.

As a leading enterprise in technology innovation, Nanjing KELISAIKE is committed to developing core competencies by continuous technology research. The company has a team of professional and technical talents, including more than 10 senior technicians and masters, who master quite many core technologies.

Nanjing KELISAIKE has passed ISO 9001 International Quality System Certification. With the guidance and tools of the standard, Nanjing KELISAIKE cannot only ensure that all the company's products and services consistently meet customer's requirements, but also that the quality of the products and services will be consistently improved.

#### **KELISAIKE Faith**

People-oriented and technology-driven

#### **KELISAIKE Principle**

Quality first, integrity-based



**Nanjing Kelisaik Safety Equipment Co., Ltd.**

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