Introduction of Langsha Group’s Personal Protective Equipment Products
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1) Company Profile

A. About Us

Langsha Knitting Co. Ltd. was established on June 10, 1995. It is located at No.1 East Sihai Avenue, Yiwu, Zhejiang Province. With 25 years of history, Langsha has established an effective and robust R&D management system and various supporting infrastructures, including Province-level Enterprise Technology Center, Province-level High-tech Enterprise Research and Development Center, National Post-Doctoral Research Station and Province-level Enterprise Research Institute.

Langsha works with the renowned research institutes such as Yiwu Industrial & Commercial College, Zhejiang Normal University, Zhejiang University of Technology, Shanghai University, Chinese Academy of Sciences, etc. in order to enhance its scientific research capabilities. Langsha’s multi-level R&D departments and scientific researchers are the main source of its sustainable growth and development.

- In August 2011, the company received an honorable award “Provincial Innovation Pilot Enterprise” endorsed by the Provincial Departments, including Science and Technology, Development and Reform Commission, Economic and Information Commission and Finance Departments.
- In 2013, the company won the second place in the ‘Armed Police cashmere pants’ competition.
- During 2014-2016, Langsha’s various antibacterial and warm knitwear were supplied to Armed Police Forces and Troops.
- In 2017, it was rated as a national intellectual property leading enterprise.
- In October 2017, it was assessed as ‘National High-tech Enterprise’.
- In 2018, it was elected as ‘Champion in manufacturing of specialized expertise’.
- In 2019, the company supplied parade socks for 70th anniversary of New China establishment.

The company has 50 state-of-the-art mask production lines and 200 protective clothing production lines. The company has 10 dedicated production lines for children’s masks, which meets the Zhejiang Textile Standard T-ZFB004-2020 of ‘Children’s Masks Group’. Daily output of children’s masks could reach 1 million pieces which is being prepared for the start of the school in China.

The company has 100,000-level and 300,000-level purified workshops and control equipment / facilities. The company has advanced instruments such as particle filtration equipment, bacterial filtration equipment, breathing resistance differential pressure detector, tensile strength measurement instrument, etc. Furthermore, the company has a central laboratory, a microbiology laboratory, a positive-pressure laboratory, and full ozone coverage, ultraviolet light and ethylene oxide poison facilities. The company has more than 3,000 employees and 210 professionals. Managers who oversees the technology, production and quality controls all have rich management experiences.
B. Manufacturing Facilities

The company’s operating area encompasses more than 180,000 square meters, including 100,000 square meters of 100,000-level purified workshops, 4,000 square meters of 300,000-level purified workshops, 4,000 square meters of the standard warehouse (1,000 square meters for raw material, 1,000 square meters for the products and 500 square meters for secondary materials) and 500 square meters of laboratory, physical and chemical rooms and ultra-clean studios. Most importantly, the factory environment adheres to GMPC certification. The layout of each functional area is balanced & effective. And the passages of people and goods are reasonably separated. The company follows standard protocols for personnel access and disinfection processes.

![Photos of Clean Workshops](image)

C. Production

The factory is equipped with fully-automatic mask machine, protective clothing, packaging and sealing machine and other equipments for production. The products are inspected by third-party testing agencies except for products’ appearance and size.
D. Laboratory

The company is equipped with the standard laboratory, the physio-chemical test room, ultra-clean studios and other supporting facilities, which can carry out various tests.

E. Raw Material Procurement

The main raw materials of disposable medical masks are melt-blown fabrics and non-woven fabrics. Currently, 10 tons of melt-blown fabrics have been reserved which can approximately produce 8 million masks.
F. Production Order Status

The company produces various personal protective equipment products. The current order volume reaches 50 million pieces per month, a total order value of nearly 70 million RMB.

Due to the surge of customer demands for protective masks, our company has specially set up a spare purification workshop for the emergency supplies. At present, the accumulated interest of ordering protective masks reached 100 million pieces.

Langsha has strong R&D, production and quality control capabilities. The company is familiar with the production process and quality control of masks, and has a group of professional technicians and production operators. The most important thing is that we already have brand-new clean production facilities and the company’s group sales channels have accumulated a large customer base.

2) List of Personal Protective Equipment Products

<table>
<thead>
<tr>
<th>No.</th>
<th>Product Name</th>
<th>Sample Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Disposable Protective Mask</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>KN95 Protective Mask</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Disposable Children Mask</td>
<td></td>
</tr>
</tbody>
</table>
3) Certification

Fiscal Year 2020
CERTIFICATION OF REGISTRATION

This certifies that:

LANGSHA KNITTING CO., LTD
Eastern No.1 Sihai Road, Langsha Industrial Park Yiwu, Zhejiang, 322000, CHINA
has completed the FDA Establishment Registration (as manufacturer) and Device
Listing with the US Food & Drug Administration, through

U.S. Agent for FDA: SUNGO TECHNICAL SERVICE INC.
Communications: 6050 W EASTWOOD AVE APT 201, CHICAGO,
ILLINOIS 60630, USA
Telephone: +1-855-957-7779 / E-mail: sungo.group@yahoo.com

Owner/Operator Number: 10062825
Device Listing#: D374336

<table>
<thead>
<tr>
<th>Listing No</th>
<th>Code</th>
<th>Device Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>D374336</td>
<td>FQL</td>
<td>STOCKING, MEDICAL SUPPORT (FOR GENERAL MEDICAL PURPOSES) (compression socks)</td>
</tr>
<tr>
<td>D374337</td>
<td>LYU</td>
<td>ACCESSORY, SURGICAL APPAREL (Face mask)</td>
</tr>
</tbody>
</table>

SUNGO Technical Service Inc. will confirm that such registration remains effective upon request and
presentation of this certificate until the end of the calendar year stated above, unless such registration is
terminated after issuance of this certificate. SUNGO Technical Service Inc. makes no other
representations or warranties, nor does this certificate make any representations or warranties to any
person or entity other than the named certificate holder, for whose sole benefit it is issued. This
certificate does not denote endorsement or approval of the certificate-holder’s device or establishment
by the U.S. Food and Drug Administration. SUNGO Technical Service Inc. assumes no liability to any
person or entity in connection with the foregoing.

Pursuant to 21 CFR 807.39, “Registration of a device establishment or assignment of a registration
number does not in any way denote approval of the establishment or its products. Any representation
that creates an impression of official approval because of registration or possession of a registration
number is misleading and constitutes misbranding.” The U.S. Food and Drug Administration does not
issue a certificate of registration, nor does the U.S. Food and Drug Administration recognize a
certificate of registration, SUNGO Technical Service Inc. is not affiliated with the U.S. Food and Drug
Administration.

Executive Director
Issued: Mar. 11, 2020
Cert. No.: 210071505510
Expiry Date: Dec. 31, 2020
4) Photos of Disposable Protective Mask and Packaging
Disposable Protective Mask
Highly filtered, fresh and breathable

Filtration Efficiency of Salty Media \( \geq 90\% \)

Three layers of protection

50 PCS

This product is not medical apparatus. Only for emergency use.
5) Test Report of Disposable Protective Mask

TEST REPORT
Zhejiang Light Industrial Products Inspection and Research Institute  
National Textiles and Garment Quality Supervision Inspection Center(Zhejiang)

Test report

Number: YJ202003108E

<table>
<thead>
<tr>
<th>Name of Customer</th>
<th>LANSWE KNITTING CO., LTD</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td></td>
<td>Address</td>
</tr>
</tbody>
</table>

Sample information

Name of sample: Mask  
Characteristics of sample: blue  
Trademark of sample: ---  
Specification/model: ---  
Level: ---  
Category of safety specification: ---  
Art. No.: ---

Above-mentioned information by Customer-supplied

The sent way of sample

<table>
<thead>
<tr>
<th>Courier</th>
<th>Sample quantity</th>
<th>One package</th>
</tr>
</thead>
</table>

Receiving Date of Sample

| 2020/03/14 |

Test Category

| Entrusted inspection |

Date of Testing

| 2020-03-14 – 2020-03-15 |

Rating Requirements

| GB/T 32610-2016 |

Test Summary:

See the attached page for the results.

See the attached page for the results.

1. The protection effect grade is not marked on the sample mark, and it is judged according to the lowest standard requirement D grade.

2. The sample is not pretreated.

Remarks

Approved by: [Signature]

Date of Approval: 2020-04-11
## Test report

<table>
<thead>
<tr>
<th>ITEM</th>
<th>STANDARD (D GRADE)</th>
<th>RESULT</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. FILTER EFFICIENCY (SALT MEDIUM) (GB/T32610-2016)(%)</td>
<td>$\geq 90$</td>
<td>92.1</td>
<td>PASS</td>
</tr>
<tr>
<td>2. PARTICLE PROTECTIVE PERFORMANCE (GB/T32610-2016)(%)</td>
<td>$\geq 65$</td>
<td>69.1</td>
<td>PASS</td>
</tr>
<tr>
<td>3. RESPIRATORY RESISTANCE (GB/T32610-2016)(Pa)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INspiratory Resistance</td>
<td>$\leq 175$</td>
<td>44.2</td>
<td>PASS</td>
</tr>
<tr>
<td>Expiratory Resistance</td>
<td>$\leq 145$</td>
<td>34.3</td>
<td>PASS</td>
</tr>
</tbody>
</table>
Test report

Number: YJ202003108E

Picture(s) of sample

End of report
6) Photos of Lanswe KN95 Protective Mask and Packaging
7) Test Report of Lanswe KN95 Mask

检验报告
TEST REPORT

浙江省轻工业品质量检验研究院
Zhejiang Light Industrial Products Inspection and Research Institute

国家纺织服装产品质量监督检验中心（浙江）
National Textiles and Garment Quality Supervision Inspection Center(Zhejiang)
## Test report

**Number:** W202004338E

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### Name of Customer
**LANSWE KNITTING CO., LTD**

### Address
**NO.1, East of sishuai road, Yiwu City, Zhejiang Province**

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### Manufacturer
**---**

### Address
**---**

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### Sample information
- **Name of sample:** KN95 Mask
- **Characteristics of sample:** white
- **Trademark of sample:** ---
- **Specification/model:** ---
- **Level:** KN95
- **Category of safety specification:** ---
- **Art. No.:** ---

---

Above-mentioned information by Customer-supplied

---

### The sent way of sample
**Courier**

### Sample quantity
**One package**

---

### Receiving Date of Sample
**2020/04/07**

### Test Category
**Entrenched inspection**

---

### Date of Testing
**2020-04-07 - 2020-04-07**

---

### Dating Requirements
**GB 2626-2006**

---

### Test Summary:
See the attached page for the results.

---

### Remarks
The sample is not pretreated and the result is for reference.

---

Approved by: [Signature]

---

Date of Approval: [2020-04-11]
## Test report

**Number:** W202004338E

<table>
<thead>
<tr>
<th>ITEM</th>
<th>STANDARD (KN95)</th>
<th>RESULT</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. FILTER EFFICIENCY (SALT MEDIUM) (GB 2626-2006)(%)</td>
<td>≥95.0</td>
<td>97.0</td>
<td>PASS</td>
</tr>
<tr>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. RESPIRATORY RESISTANCE (GB 2626-2006)(Pa)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Inspiratory Resistance</td>
<td>≤350</td>
<td>92</td>
<td>PASS</td>
</tr>
<tr>
<td>- Expiratory Resistance</td>
<td>≤250</td>
<td>80</td>
<td>PASS</td>
</tr>
</tbody>
</table>
Test report

Picture(s) of sample

End of report
8) Product Details

KN95 Protective Mask
5-LAYER
EFFICIENT FILTRATION
SAFETY EXPERIENCE
Multi-carbon, multi-filtration and multi-layer composite structure for multi-layer protection

CONTACTABLE SKIN LAYER

MOISTURE ABSORBING AND SWEAT RELEASING GUIDE LAYER

DOUBLE-LAYER MELT-BLOWN FABRIC 1

DOUBLE-LAYER MELT-BLOWN FABRIC 2

NON-WOVEN FABRIC PROTECTIVE LAYER
KEY FILTER MATERIALS OF MELT-BLOWN FABRIC

KN95 reaches the filtration efficiency of 98% to effectively protect the respiratory health.

EFFECTIVELY PROTECT RESPIRATORY HEALTH

<table>
<thead>
<tr>
<th>Respiratory resistance</th>
<th>KN95 filtration efficiency</th>
<th>Formaldehyde content</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;100 pa</td>
<td>98%</td>
<td>0%</td>
</tr>
</tbody>
</table>
WITH THE HIGHER FIRE POINT, THE EFFICIENT MELT-BLOWN FABRIC CANNOT BE EASILY IGNITED BY FIRE UNDER NORMAL CIRCUMSTANCE.
IT IS WATERPROOF AND BREATHABLE, AND ABLE TO ISOLATE DROPLET.

It is odorless and non-irritant and able to effectively isolate hazardous particles. It can isolate droplet.
KN95 PROTECTIVE MASK
5-layer improved filtration, effective filtration rate of hazardous substance > 99.5%

EXTERNAL COMFORTABLE NOSE CLIP
Skin-friendly material design, more comfortable contact

ENVIRONMENTALLY-FRIENDLY, SOFT AND FLEXIBLE MATERIALS
Environmentally-friendly and skin-friendly shell fabric, non-irritant, moisture absorbing and sweat releasing

HIGH-ELASTICITY EAR LOOP
High-elasticity ear loop, easily stretchable, no ear tightening
Disposable Protective Mask

**PROTECT THE RESPIRATORY HEALTH**

THREE-LAYER PROTECTION

“Lanswe Layer” disposable protective mask has 3-layer structure, and the internal and external layer is the non-woven fabric protective layer, which is skin-friendly, thickened, damp proof and soft with suitable thickness.

- **Polypropylene SB non-woven fabric**
  Effectively isolate the visible substances such as droplet

- **Melt-blown non-woven fabric**
  Filter the non-oily particles in air

- **Polypropylene SB non-woven fabric**
  Absorb the hot breath from the body to make the skin dry and comfortable
Melt-blown non-woven fabric is a type of efficient filter material, which is the most important and core part and can effectively filter small-particle pathogenic bacteria.

**Note:**

1. The external layer of non-woven fabric filters large particles and protects filter materials.
2. The middle layer of electrostatic melt-blown fabric determines the filtration effect of small particles and droplets.
3. The internal layer of non-woven fabric determines the wearing comfort level.
SPOT WELDING

The ear hook is connected with the mask through spot welding for fastness.

CONCEALED PLASTIC NOSE BRIDGE FOR ANTI-FOG

- Built-in concealed soft nose clip
- Avoid gap by adjustment
- Effectively reduce the hazardous substance inhalation

THREE-LAYER FOLDING

360° 3D breathing space

3MM WIDE-EDGE EAR LOOP

Wide-edge ear hook
Lower sense of pressure

Considerate design with various comfortable materials
Soft, light-weight, thin, breathable, comfortable
“Lanswe Layer” protective mask makes freer breathing.
洁净生产车间

PRODUCTION WORKSHOP
Dust-free and asepsis
Production workshop