

"Manufacturing of Anti Cutting & Anti Slip External Wearing Sports Socks

" "Made in Zhejiang" standard compilation instructions

1 Project background

As a symbol of human civilization, shoes have long been an indispensable part of our lives. However, due to the excessive protection of shoes, coupled with the design of insoles and air-cushion running shoes, physical problems such as poor running posture and sports injuries at the knee joints have been derived. As people continue to understand the structure of the human body, consumers' sports concepts have changed dramatically, and barefoot sports have become a new fashion in the world. Although traditional socks can be worn alone, they can provide a sense of barefoot and provide some protection. However, it is still difficult to move outside, and outdoor activities usually need to be equipped with shoes. The sole is both a thick protective layer and an insulation layer, which isolates the "interaction" between the feet and the ground. Cut non-slip outer wear sports socks is a sports socks developed in accordance with the modern sports concept. It not only makes the wearer feel barefoot and enjoy the joy of sports, but also uses high-molecular polyethylene as the body. The bottom of the socks is dipped, and the product has the characteristics of cut resistance, puncture resistance, and non-slip, which protects the soles of the feet.

With the continuous deepening of sports fashion, such socks products that can be used as shoes have also been promoted worldwide. At present, the more influential products in this category include Swiss fyf and Czech skinner. Production of products There must be matching products to support it. At present, domestic standards for socks include fz / t 73001-2016 "Socks", fz / t 73037-2019 "Knitted sports socks", etc., and rubber products can refer to gb 24541-2009 " The mechanical protection performance part of the standard of "Hand Protection, Mechanical Hazard Protective Gloves". This standard refers to and refers to the above standards and sets key indicators based on product characteristics, which is more conducive to leading the standardization of production of this product and

improving it at home and abroad. Market competitiveness and market share of "Made in Zhejiang" cut-proof skid-proof outer wear sports socks products.

2 Project sources

Haining Jinbaili Socks Co., Ltd. applied to the Zhejiang Provincial Brand Construction Federation, approved the project, and issued and issued the Zhejiang Pinlian [2019] No. 16 "About the Issuance of the Third Batch of" Made in Zhejiang "Standard Development Plan for 2019 Notice, item name: `` cut-proof non-slip outer wear sports socks " (serial number: 105).

3 Overview of standard setting work

3.1 Standard development related units and personnel

3.1.1 The organization that led the development of this standard: Zhejiang Textile Testing Research Institute.

3.1.2 The main drafting unit of this standard: Haining Jinbaili Socks Co., Ltd.

3.1.3 This standard participated in the drafting unit: Zhejiang Textile Testing Research Institute, Zhejiang Zhongtian Textile Testing Co., Ltd.

3.1.4 The drafters of this standard are:

3.2 Main working process

3.2.1 Preliminary preparations

- On-site investigation

Conduct on-site investigations of enterprises, and collect and sort out relevant materials for the "Made in Zhejiang" standard project.

- Set up a standard working group

In accordance with the "Made in Zhejiang" standard issued by the Provincial Brand Association, a plan for "cut-proof, non-slip, wear-resistant sports socks" was formulated. Zhejiang Textile Testing and Research Institute and Haining Jinbaili Socks Co., Ltd., in order to better carry out the compilation work, joined Zhejiang Zhongtian Textile Testing

Co., Ltd. and others jointly established a standard working group to clarify the division of responsibilities of each person.

- Clear development focus

The focus of the development of the "cut-resistant, non-slip, wear-resistant sports socks" includes: name, scope, basic requirements, technical requirements, test methods, inspection rules, product instructions, packaging, transportation and storage, and quality commitments. The internal quality requirements indicators and appearance requirements indicators are extracted from the highlights that can reflect the advanced nature of the standard, and the company's confidence in product quality is reflected through quality commitment.

- Development plan and schedule

(1) The preliminary survey and drafting stage in April-June 2019: complete field surveys and collection of relevant standards; standard working groups prepare standards (drafts) and standard preparation instructions.

(2) September 2019: Completed the project of "cut-proof, non-slip, outer wear sports socks".

(3) November 11, 2019: Convened standard launch and seminar.

(4) Before November 2019: Standards will be formed after the seminar (draft for comments), and electronic version of the standard draft for comments will be sent to universities, testing institutions, associations, enterprises and other stakeholders, soliciting opinions, and , Summarized into a summary table for comments.

(5) Before xx month xx xxxx: The standard development working group explores expert opinions and revises them; perfects the materials such as drafts for comments, standard preparation instructions, etc., prepares standard submission drafts and other submission materials, and recommends review experts, submits submission materials and Wait for the review meeting.

(6) xxxx xxxxx: during the review stage, a standard review meeting is held. Experts review the standard submission draft and other submission materials and give evaluation suggestions.

(7) xx month xxx: according to the expert evaluation recommendations of the review committee, review the standard (submission for review), and modify and improve the submission for review according to expert opinions to form a standard (report for approval), and simultaneously improve other submissions. And submit to wait for

standard release.

The standards working group clearly clarified the focus and outline of standards development, emphasized independent innovation, energy conservation and environmental protection, intelligent manufacturing, process control, equipment assurance, testing level and technical improvement in standards development, and highlighted the advanced quality, technology and service Form the framework and structure of standard formulation, including cover, table of contents, preface, scope, normative references, product code, basic requirements, technical requirements, test methods, inspection rules, packaging, marking, transportation and storage, and quality commitment .

3.2.2 Development of draft standards

At present, there are no relevant national standards and industry standards for domestic cut-resistant and slip-resistant outer wear sports socks. The development of this standard mainly refers to standards such as FZ / T 73037-2019 Knitted Sports Socks and Oeko-tex Standard 100. The product characteristics are cited in GB 24541-2009 "Hand Protection Mechanical Hazard Protective Gloves" for indicators such as friction resistance, cut resistance, puncture resistance, and testing methods. At the same time, taking into account the product's external wear characteristics, the slip resistance index The introduction of friction coefficient. The product has set an inherent quality index with advanced nature. Starting from the requirements of the entire life cycle of the "Made in Zhejiang" standard, the basic product requirements and quality commitment chapters have been added.

In the early stage of standard development, members of the standard working group and industry and enterprise expert representatives thoroughly studied and discussed the draft of the standard. Starting from the full life cycle of the product, the goal was to improve product performance and user experience. The standard formulation framework requirements and the "Made in Zhejiang" standard drafting philosophy and positioning requirements are compiled in accordance with the rules given in gb / t 1.1-2009 "Guidelines for Standardization Work Part 1: Standard Structure and Compilation".

a) The name of the product is determined according to the characteristics and uses of

the specific product;

b) Determine the content in the basic requirements, and divide the content into four aspects: R & D design, raw materials, manufacturing, and testing capabilities;

c) Technical requirements include appearance quality requirements, intrinsic quality requirements and other requirements;

d) The appearance and quality requirements in the technical requirements include: product structure, product specifications, dimensions, tolerances, and surface defects. The dimensions and tolerances refer to the cotton (cotton chemical fiber) in FZ / T 73037 Knitted Sports Socks according to product characteristics. (Blended yarn) / spandex core yarn interlaced under ankle and short tube socks. The product structure and surface defects have increased the requirements on the bottom of the socks

e) Corresponding to the new indicators in the technical requirements, the corresponding test methods and inspection rules have been added;

f) Added quality commitment content on the basis of FZ / T 73037.

The standard working group modified it according to expert opinions, and finally formed a standard solicitation draft.

3.2.3 Soliciting opinions.

In November 2019, according to the characteristics of the product and the areas involved, the working group sent a standard consultation draft and preparation instructions to experts from other units, and received written comments on the revised standard before the month and day to collect comments. After the group summarized the revised opinions, after discussion and related experimental verification, they adopted the opinions, modified the corresponding standard content, and gave reasons for the unaccepted revised opinions.

3.2.4 Expert review.

According to the "Made in Zhejiang" standard review requirements, a list of expert suggestions is proposed. The list is as follows:

Serial number	employer	Position / Title
1		
2		
3		
4		
5		

On the month of 2019, a standard review meeting was held. The review team strictly controlled the text of the standard chapter by chapter. The review unanimously passed the review, but the review also proposed relevant amendments. The main comments are as follows:

3.2.5 Standard approval.

According to the comments made by the expert review team on the standard text and the preparation instructions, the project team made a final revision, and through the unanimous agreement of the expert team, the standard was finally submitted for approval.

4 Principles, main content and determination basis

4.1 Establishment principles

Prepared in accordance with the specifications and requirements of "Guidelines for Standardization Work Part 1: Structure and Compilation of Standards" (GB / T 1.1-2009). Standards are prepared in accordance with "compliance, necessity, advancedness, economy, operability The "five natures" principle, mainly referring to the industry standard fz / t 73037 "Knitted Sports Socks", establishes test methods and evaluation standards to provide a basis for determining test parameters and specific details; at the same time, it refers to the company's and market technical capabilities, as much as

possible International standards are in line, and the operability of standards is emphasized. In accordance with the framework of "Made in Zhejiang" standards, basic requirements and quality commitments have been supplemented on the basis of technical standard requirements, and this standard has been prepared.

4.2 Main contents and determination basis

4.2.1 Standard scope: This standard specifies the basic requirements, technical requirements, test methods, inspection rules, instructions for use, packaging, transportation, storage, and quality commitment of cut-resistant, non-slip, outer wear sports socks; this standard applies to products that contain high performance Fiber yarn as raw material, cut-resistant non-slip outer wear sports socks made by weaving and dipped in socks; this standard does not apply to infant socks of 36 months and younger; this standard does not apply to professional athletic sports Socks.

Basis: The product is externally worn sports socks. When selecting raw materials such as yarn, it is more demanding than traditional socks. The raw materials of this product are high-performance fiber yarns.

4.2.2 In terms of basic requirements, the main content and determination basis are as follows:

(1) Research and development design: design product styles according to different users, 3 to 6 years old for split toe socks design, 7 years old and above for five toe socks design; according to ergonomic principles, different forces on the product The configuration of high-performance yarns at the parts is designed for the height of the arches and ankles; according to the requirements of product protection, the design of the product is performed. The configuration of high-performance yarns at different stressed parts is designed. Ankle diastolic ring height and its organizational structure; according to different protection requirements, the area of the colloid (dip depth), pattern, etc. are used to design the process.

Basis: The product has been designed in different styles for different ages, 3 to 6 years old is designed with split toe socks, and 7 years old and above is designed with five toe socks; product wrapping is very important for the experience of product use, wrapping. Mainly analyze the key wrapping parts based on ergonomic principles, and design tests for these parts, and finally get the optimal value; because the cut resistance is determined by the fabric part of the socks and the rubberized part, the fabric part mainly uses strong yarn to ensure the product strength. In the configuration of the strong yarn in different stressed parts through the product structure design.

(2) Raw and auxiliary materials: using high-performance yarns as raw materials, the strength is not less than $4\text{N} / \text{tex}$, and the modulus is not less than $105\text{N} / \text{tex}$; if ultra-high molecular weight polyethylene and brocade / ammonia-covered yarn are used as raw materials, UHMWPE should meet GB/T 29554—2013 The requirements for top-quality products and nylon / ammonia covered yarn should meet FZ/T 12040—2013 Requirement for superior products; using high-quality natural latex with a latex content of not less than 95%.

Basis: Ultra-high molecular weight polyethylene is the guarantee of cut resistance and abrasion resistance of woven socks. Therefore, high-strength yarns are required for strength and modulus. Natural latex mainly considers its rubber content to ensure rubber base density.

(3) In terms of technology and equipment: Five-toe socks machine is used. The five-toe socks machine has an automatic control system, a tension self-stop device, and a woven heel. The number of stitches can be selected between 72 and 176 stitches. Standards compliant.

Basis: In order to increase the wrapping of the product to the feet, a five-toed socks machine capable of weaving three-dimensional heels is used. The five-toes of the socks plus the three-dimensional heels further increase the coverage of the socks.

When weaving, we can prevent the high-strength fibers from unwinding smoothly and the weaving equipment's yarn scissors from cutting the yarn smoothly. The tension auto-stop device is used to realize the automatic rush of the machine to avoid damage to the weaving equipment caused by high molecular weight polyethylene fibers.

(4) In terms of inspection and testing, the testing equipment for the raw material yarn strength, color difference and defect items should be provided and tested; the horizontal

extension value of the finished product, defects, abrasion resistance, and broken needle items should be provided and tested.

4.2.3 In terms of technical requirements, the main content and determination basis are as follows:

The development of this standard mainly refers to standards such as fz / t 73037-2019 Knitted Sports Socks, gb 24541-2009, starting from product characteristics and use requirements, and for some characteristic indicators, the anti-skid performance is mainly referred to qb / t 5300-2018. Anti-slip performance requirements in Diabetic Foot Protection Shoes, n-nitrosoamine content is based onGB 25038-2010The requirements for this substance in the Technical Specification for Health and Safety of Rubber Shoes, and the low-temperature folding resistance of sock soles require this index according to qb / t 4886-2015 `` Low-temperature folding resistance requirements for footwear soles ".

Inherent quality requirements include horizontal elongation, fiber content, formaldehyde content, pH value, odor, decomposable carcinogenic aromatic amine dye, burst strength, antibacterial effect, abrasion resistance, wash fastness, acid resistance, alkali sweat stain fastness Degree, color fastness to rubbing, color fastness to soaping, cutting resistance, puncture resistance, slip resistance, N-nitrosoamine, water absorption, evaporation rate, and low temperature folding resistance of socks. Elongation value, fiber content, formaldehyde content, pH value, decomposable carcinogenic aromatic amine dye, burst strength, antibacterial effect, wash fastness, acid fastness, alkali sweat fastness, rub fastness, soap fastness Refer to the requirements of FZ / T 73037-2019 "Knitted Sports Socks" for fastness, etc. For the wear resistance, cut resistance, and puncture resistance, refer to the index requirements and corresponding tests in GB 24541-2009 "Hand Protection Mechanical Hazard Protective Gloves". Method. The water absorption and evaporation time refer to the performance requirements and detection methods in GB / T 21655.1. The anti-slip performance refers to the anti-slip performance requirements in QB / T 5300-2018 "Diabetic Foot Protection Shoes". The N-nitrosoamine content is based onGB 25038-2010The requirements for this substance in the Technical Specification for Health and Safety of Rubber Shoes, and the low-temperature folding resistance of sock soles require this index according to qb / t 4886-2015 `` Low-temperature folding resistance requirements for footwear soles ".

In the external quality requirements, basically refer to the requirements of fz / t 73037-2019 `` knitting sports socks ", but because the product is a five-toe socks, the socks are knitted from the toe, and there is no seam. "Requirements" section; because the product is a sock sole dipping product, the vertical extension value of the product is not considered in the internal quality requirements. The reference 24541-2009 "Hand Protection Mechanical Hazard Protective Gloves" does not use tear resistance. It is because this indicator is not applicable to socks products.

4.2.4 In terms of quality commitment, the main content and determination basis are as follows:

In terms of quality service commitments, according to the characteristics of the product, two clear quality commitments to users are proposed.

5 Advanced standards

5.1 The main technical indicators involve standard analysis

At present, there is no relevant product standard for cut-resistant non-slip outer wear sports socks at home and abroad. The cut-resistant non-slip outer wear sports socks are essentially different from traditional socks. The biggest concern of the standard is to wear the outside, so only some technical indicators Comparison can be made according to fz / t 73037-2019 Knitted Sports Socks.

(1) appearance quality

fz / t 73037-2019 `` Knitted Sports Socks " The main requirements for the appearance of the product are the requirements of the sock body. The rubber sole is added to this standard.

(2) Internal quality requirements

The requirements of the lateral extension value in this Zhejiang manufacturing standard are in accordance with the requirements of the socks in fz / t 73037-2019 `` Knitted Sports Socks ".

Color fastness indicators such as water fastness, acid resistance, alkali fastness, rubbing fastness, and soaping fastness are all increased by 1 level compared to the indicators of fz / t 73037-2019 `` Knitted Sports Socks ''.

According to the characteristics of "outer wear" of the product, increase the friction resistance, cut resistance, puncture resistance, and non-slip performance to ensure durability and safety and reliability during use. The friction resistance is considered when the product is in motion. The friction between the bottom and the ground is constant. The ground is a relatively rough surface. Products with poor abrasion resistance are easily perforated by friction when worn, and their service life is extremely short. Only good abrasion resistance can ensure the life of the product. This project Mainly refer to gb 24541-2009 "Hand Protection Machinery Hazard Protective Gloves" for testing methods and indicators of friction resistance. The cutting resistance and puncture resistance mainly consider glass fragments, sharp metal objects on the ground, etc. The danger of piercing the bottom of the socks and hurting the soles of the feet refers to the cutting resistance and puncture resistance items and indicators in gb 24541-2009 "Hand Protection Machinery Hazard Protective Gloves", and the coefficient of friction is an indicator of the slip resistance of the product During the outdoor exercise, maintaining a certain friction between the soles of the feet and the ground not only prevents the danger caused by slipping, but also reduces sports fatigue.Non-slip coefficient of a given product.

This product is a dipping product.Considering that rubber may contain toluene and xylene, at the same time, the indicator is limited according to the detection limit of 20mg / kg by gas chromatography.

The product is a sports product. Therefore, the comfort index of the product was examined. According to gb / t 21655.1 "Assessment of moisture absorption and quick drying of textiles. Part 1: Single combination test method". Make settings.

It is considered that broken needles will be mixed into the product during the weaving process and will hurt consumers when wearing, so a broken needle detection item is set up.

5.2 Advanced analysis index comparison table

5.2.1 Appearance quality part

project	Standard indicators		Contrast situation
	Zhejiang Manufacturing Standard	FZ/T 73037-2019	
Rubber bottom color	Level 4-5 is allowed on the same pair, without dirt and stain	no request	increase
bubble	Less than 3 bubbles with a diameter less than 1.5mm that does not affect the wear resistance are allowed, less than one medium bubble with a diameter greater than 1.5mm and less than 3mm is allowed, and large bubbles greater than 3mm are not allowed	no request	increase
Rubber sole pattern	The density, shape, and block distribution of the rubber sole pattern on the left and right socks are basically the same, and the height difference between the dipping edges is controlled within 3mm.	no request	increase
Hanging glue, bumping, no marks	Not allowed	no request	increase

5.2.2 Internal Quality Section

project			Standard indicators		Contrast situation
			Zhejiang Manufacturing Standard	FZ/T 73037-2019	
Dyeing color fastness / level ≥	Color fastness to washing	Discoloration	4	3	Promote
		Staining			
	Color fastness to perspiration	Discoloration	4	3	Promote
		Staining			
Color fastness to rubbing	Ganmo	4	3	Promote	
	Wet friction				
Color fastness to	Discoloration	4	3		

project		Standard indicators		Contrast situation
		Zhejiang Manufacturing Standard	FZ/T 73037-2019	
	soaping	Staining		
Friction resistance / cycle \geq		8000	no request	increase
Cutting resistance / n \geq		20	no request	increase
Puncture resistance / n \geq		100	no request	increase
Anti-slip performance (wet coefficient of dynamic friction) \geq		0.4	no request	increase
N-nitrosoamine / (mg / kg)		not detected	no request	increase
Water absorption rate /% \geq		200	no request	increase
Evaporation speed / (g / h) \geq		0.18	no request	increase
Low temperature resistance of socks		The length of the cut after the bottom of the socks is ≤ 20.0 mm, the number of new cracks is not more than 3, and the maximum length of the crack should not be greater than 5.0mm	no request	increase
Broken needle		not detected	no request	increase

5.3 Basic requirements (product design, raw materials, key technologies, processes, equipment, etc. outside the technical indicators specified in the type test), quality commitments, etc., reflect the advanced nature of the "Made in Zhejiang" standard and the "four fines" characteristics.

5.3.1 Design R & D

Design product styles according to different objects, 3 to 6 years old for split-toe socks, 7 years old and above for five-toed socks; according to ergonomic principles, in order to meet the requirements of socks foot wrapping and protection The structure is designed; according to the requirements of the product's protective properties, the product is configured with high-performance yarns in different stressed parts, and the height of the arch and ankle diastoles is designed; according to different protection requirements, the area of the colloid (impregnated rubber) Depth), pattern, etc.

Full consideration has been given to raw materials, structural design, and product functions.

5.3.2 Raw and auxiliary materials

Using high-performance yarns as raw materials, the strength is not less than 4N / tex, and the modulus is not less than 105N / tex; if ultra-high molecular weight polyethylene and brocade / ammonia-covered yarn are used as raw materials, ultra-high molecular weight polyethylene should comply with GB/T 29554—2013 The requirements for top-quality products and nylon / ammonia covered yarn should meet FZ/T 12040—2013 Requirement for superior products; using high-quality natural latex with a latex content of not less than 95%.

In the selection of materials, the characteristics of anti-cut, anti-slip and puncture resistance of the product are considered, and high-performance yarns are selected to ensure the anti-cut performance of the socks.

5.3.3 Process equipment

Five-toe socks machine is adopted. The five-toe socks machine has an automatic control system, a tension self-stop device, and a woven heel.

This section mainly reflects the consideration of the product's wrapping properties during production. In addition, because this product uses high-strength yarns, it is equipped with a tension self-stop device to prevent damage to the machine caused by high-strength yarns when the yarn cannot be ejected.

5.3.4 Quality Commitment

Provide more detailed instructions for use and maintenance in the product packaging and the company's network platform to guide customers to correctly use and maintain the product; under normal storage and transportation and use, within 7 days from the user's purchase, without affecting secondary sales Can be returned unconditionally under

circumstances; when the user objects to the product quality, the factory will respond within 24 hours and provide customers with services and solutions in a timely manner. When the user objects to the product quality, the manufacturer should make it within 24 hours Respond and provide customers with services and solutions in a timely manner.

6 Harmony with current relevant laws, regulations, rules and related standards

6.1 Conflicts between standards and related mandatory standards.

The formulation of this standard complies with the relevant national laws, regulations and mandatory standards, and complements the current national environmental protection policies and regulations. The formulation of this standard fully reflects the "Made in Zhejiang" standard, "domestic and international advanced" positioning The standards are advanced, and they are not lower than national standards, line standards and local standards.

6.2 The main domestic standards currently implemented are:

no

6.3 This standard refers to the following documents:

gb / t 250 gray color card for evaluation of discoloration of textiles

gb / t 2910 (all parts) quantitative chemical analysis of textiles

gb / t 2912.1 Determination of formaldehyde in textiles-Part 1: Free and hydrolyzed formaldehyde (water extraction method)

gb / t 3903.6 Test method for whole footwear

gb / t 3920 Color fastness test of textiles

gb / t 3921—2008 Textiles color fastness test soaping fastness

gb / t 3922 Color fastness test of textiles

gb / t 4856 needle cotton packing

gb / t 5296.4 Instructions for use of consumer goods. Part 4: Textiles and clothing

gb / t 5713 textile color fastness test water fastness

GB / T 7573 Determination of pH value of textile water extract

gb / t 16988 Determination of the content of special animal fiber and sheep wool mixture

gb / t 17592 Determination of banned azo dyes in textiles

gb 18401 national safety technical specifications for textile products

gb / t 19976—2005 Determination of bursting strength of textiles

gb / t 21655.1 Evaluation of moisture absorption and quick-drying of textiles. Part 1: Single combination test method

gb / t 24121 Method for detecting broken needle residues in textile products

gb 24153—2009 determination of n-nitrosoamines for rubber and elastomer materials

gb 24541—2009 hand protection protective gloves against mechanical hazards

GB/T 29554—2013 Ultra high molecular weight polyethylene fiber

gb / t 29862 identification of textile fiber content

gb 31701 safety technical specifications for textile products for infants and children

FZ/T 12040—2013 Polyester (nylon) / spandex coated yarn

fz / t 73023—2006 Antibacterial knitwear

fz / t 01057 (all parts) Test method for identification of textile fibers

fz / t 01095 Test method for fiber content of textile spandex products

fz / t 01026 Quantitative chemical analysis of textiles

fz / t 01101 Textiles-Determination of fiber content-Physical method

fz / t 30003 Quantitative analysis method for hemp-cotton blended products

Microprojection method

qb / t 4886 Low temperature resistance requirements for footwear soles

The above standards have been verified and all are currently valid standards.

7 Social benefits

Zhejiang manufacturing essentially allows enterprises to achieve the transformation of

Chinese products to Chinese brands, enhance the brand and user recognition of enterprises, and also allow enterprises to change from pursuing speed to quality, so that enterprises have a deep understanding of the importance of quality in the future development of enterprises. This standard defines the requirements for cut-resistant non-slip outer wear sports socks, and regulates the raw materials, manufacturing processes, and quality commitments during the manufacture of cut-resistant non-slip outer wear sports socks. The implementation of the standard will be the production of this product. The realization of standardized and large-scale production by enterprises provides strong technical support, which can further promote the improvement of product quality, and increase the market competitiveness and market share of "Made in Zhejiang" cut-resistant skid-proof outer wear sports socks at home and abroad.

8 Process and basis for handling major differences of opinion

no.

9 Proposals to abolish existing relevant standards

no.

10 Suggestions and reasons for standard enforcement or recommendation

This standard is the group standard of Zhejiang Province Brand Building Federation.

11 Requirements and measures for implementing standards

The "Made in Zhejiang" standard has been approved and published, and the text is published in full on the official website (<http://www.zhejiangmade.org.cn/>) by the Zhejiang Province Brand Building Federation for free public inspection.

Haining Jinbaili Socks Co., Ltd. will self-declare the adoption of this standard on the enterprise standard information public service platform (<http://www.cpbz.gov.cn/>), and other units adopting this standard shall also be on the information platform Make a

self-declaration.

12 Other matters to be explained

Related patents covered by this standard

Utility model patents:

Five-toed day socks (zl 2015 2 0722417.9);

A kind of sky foot socks (zl 2014 2 0709467.9).

Standards drafting group

November 15, 2019