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Report No. TSNT0167938 "Carbon Footprint of Knitted Garments" Final Report

Performed for Qingdao Sino Textile Technique Co.,Ltd

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Report No. TSNT01679381 sinotextile.net, any unauthorized use is illegal.

This study is commissioned by Qingdao Sino Textile Technique Co., Ltd(www.sinotextile.net) to assess the partial product carbon footprint with the support of a Life Cycle Assessment (LCA) approach concerning the knitted of any un garments product produced by Qingdao Sino Textile Technique Co., Ltd, which locates in Zoujiawa Village, Fuan Industrial Park, Jiaozhou, 266300 Qingdao, Shandong China.

This carbon footprint assessment study is performed following:

eport No. TSN 1016 1938 1 14040 & ISO 14044 standards but cannot be fully compliant because: w.sinotextile.net, 如此 150 14040 表 ISO 14044 standards but cannot be fully compliant because:

- extile net所有,任何本 it is a single-indicator assessment: contribution to Climate Change (kg CO<sub>2</sub>e), and
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  - the ISO 14067:2018 standard: Greenhouse gases Carbon footprint of products Requirements and NT0167938 guidelines for quantification.

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### 1.1 Introduction of the Commissioner

eport No. TSNThe commissioner of this CFP study is Qingdao Sino Textile Technique Co., Ltd (www.sinotextile.net), which is located w.sinotextile in Zoujiawa Village, Fuan Industrial Park, Jiaozhou, 266300 Qingdao, Shandong China.

extile net Pin Qingdao Sino Textile Technique Co., Ltd, is one of the leading Merino wool baby & kid products manufacturer and specialist in China. It focuses on circular knitting Merino wool products and export to Scandinavia/France/Germany Report No. TSNT0167938 /UK and other countries in Europe around 20 years. 日间末经授权的 All right reserved by www.sinotextile.net, any un

### 1.2 Introduction of the Product

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This CFP study is to focus on the evaluation of the greenhouse effect of the wool jacquard knitted top/body/ longjohn made of 100% RWS wool interlock jacquard 190g fabric described as bellow:

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Wool jacquard knitted top-heather rose (order#PO-00001340)

Wool jacquard knitted top-mood indigo (order#PO-00001340)79381

Wool jacquard knitted body -heather rose (order#PO-00001334) unauthorized use is illegal.

Wool jacquard knitted body - mood indigo (order#PO-00001334)

Wool jacquard knitted longjohn -heather rose (order#PO-00001384)

Wool jacquard knitted longjohn -Mood indigo (order#PO-00001384)

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### 2. GOAL AND SCOPE

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Report No. TSNT01679381

Report No. 13N 1019331.

The goals of the study are to go t

Report No. TSNT0167938 build an up-to-date and well-documented Life Cycle Inventory (LCI) for wool jacquard knitted top/body/longjohn produced by Qingdao Sino Textile Technique Co., Ltd. The carbon footprint profile shall be presented for one piece of wool jacquard knitted top/body/longjohn.

eport No. TSN 1016 evaluate the impact of climate change of the product from cradle to gate, excluding the distribution, w.sinotextile.net, a maintenance, use phase, or the end-of-life phase of the product. extile.net所有,任何

Report No. TSNT01679381 Report No. TSN101679301

2.1.1 Reasons for the Study
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Report No. TSNT0167938 This carbon footprint assessment study is to enhance the competitiveness of Sino's products in the sustainable consumer market, government procurement and evaluation of green financial product. It could also respond to the challenge of disclosure needs of stakeholders and the management requirements of sustainable supply chains.

eport No. TSN 101079 Intended Application

w.sinotextile.net, any unauthorized extile net in The results of the study are to be applied as carbon footprint of wool jacquard knitted top/body/longjohn. This study is not intended to support any comparative assertion as defined in the ISO 14040, ISO 14044, and ISO 14067:2018 standards. Available published data is used to set the results of the study into perspective, for discussion 0167938 All right reserved by www.sinotextile.net, any un and interpretation. 所有权利归www.sinotextile.net所有,任何未经验

2.1.3 Intended Audience

The study is not intended to be published. The intended audience includes internal and external stakeholders. eport No. TSN The internal stakeholders include those involved in operations, marketing, and communications. The external w.sinotextile stakeholders include customers/consumers, the LCA community as well as the general public. extile.net所有,

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2.2 Scope of the Study
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2.2.1 System Description

In the study, the product system of wool jacquard knitted top/body/longjohn is studied, including the eport No. TSN manufacture and transportation of raw materials, the manufacture/packaging/transportation (to Qingdao port) w.sinotextile.rprocess of garments 元非法。

> The wool jacquard knitted top/body/longjohn delivery (from Qingdao port to customer), use and end-of-life treatment process are beyond the scope of the study.

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#### 2.2.2 Declared Unit

eport No. TSN The declared units for the partial PCF study are defined as:

w.sinotextile. The carbon footprint for processing one piece of wool jacquard knitted top-heather rose (order#PO-00001340);

extile net in The carbon footprint for processing one piece of wool jacquard knitted top-mood indigo (order#PO-00001340);

The carbon footprint for processing one piece of wool jacquard knitted body-heather rose (order#PO-00001334);

The carbon footprint for processing one piece of wool jacquard knitted body-mood indigo (order#PO-00001334); 10167938

The carbon footprint for processing one piece of wool jacquard knitted longjohn-heather rose by www.sinotextile.net, any un 有权利归www.sinotextile.net所有,任何未经控 (order#PO-00001384);

The carbon footprint for processing one piece of wool jacquard knitted longjohn-Mood indigo (order#PO-00001384);

eport No. ISIN The reference flow associated with the declared unit is one piece of wool jacquard knitted top/body/longjohn extile net fife, and its primary packaging.

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Report No. 15N101073301

2.2.3 System Boundaries ht reserved by www.sinotextile.net, any unauthorized use is illegal. 所有权利归www.sinotextile.net所有,任何未经授权的使用,均属非法。

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The study is from cradle to gate, starts with the producting of raw wool, and ends by the wool knitted top/body/ longjohn delivery to Qingdao port.

The processes included in the study to perform the assessment are

eport No. TSN 17he manufacture and transportation of raw materials, w.sinotextile.net,

w.sinotexture.of wool jacquard knitted top/body/longjohn,

- unauthorized use is illegal. The packaging of wool jacquard knitted top/body/longjohn,
- The transportation of wool jacquard knitted top/body/longjohn.

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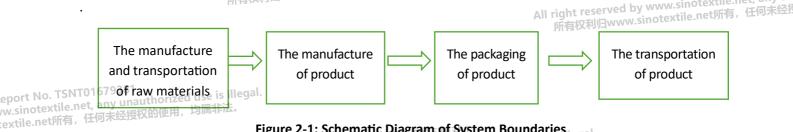


Figure 2-1: Schematic Diagram of System Boundaries

#### 2.2.4 Assumptions

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Report No. TSNT0167938 There is only one electricity meter in the semi-finished heather rose jacquard knitted fabric/interlock knitted fabric and semi-finished heather rose jacquard knitted fabric/interlock knitted fabric and semi-finished heather rose jacquard knitted fabric/interlock knitted fabric and semi-finished heather rose jacquard knitted fabric/interlock knitted fabric and semi-finished heather rose jacquard knitted fabric/interlock knitted fabric and semi-finished heather rose jacquard knitted fabric/interlock knitted fabric/in manufacturing workshop, and there is no separate reading of a single production line. Based on experience, we assume that the electricity consumption is distributed according to the equipment power and calculate a coefficient to get the electricity consumption.

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2.2.5 Cut-off Criteria

eport No. TS/To delimit the system, the inclusion criterion has been set to 1%. Meanwhile, the sum of emissions from processes w.sinotextile excluded from the system represents less than 5% of total impacts of the system contributing at each of the extile.net所 impact categories studied here. This value of 5% is the result of modelling constraints, including the availability of right reserved by www.sinotextile.n 任何未经授权的使用, 均属非法

In practice, modelling iterations were used, first by maximizing the potential impacts of each process throughout 10167938 the life cycle. This allows identification of the processes that contribute more than 5% of total emissions of the system. Inventory data and modelling parameters of these processes were subsequently refined. sinclexture Exclusion due to cut-off criteria applies to the following parts of the system:

eport No. TSNT01679 plant infrastructure,

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some extremely low inputs/outputs of the study system y unauthorized use is illegal. 所有权利归www.sinotextile.net所有,任何未经授权的使用,均属非法。

2.2.6 Data Collection

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w sinotextile. The upstream primary data were collected through data collection questionnaires designed by Intertek and filled out by the material suppliers of Qingdao Sino Textile Technique Co., Ltd, without an onsite verification of the data.

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All the processes (life cycle inventories from the LCA databases) are from LCA for Experts 10.7.1.28 (GaBi) and eport No. TSIecoinvent 3.9 databasee is illegal. w.sinotextile.r

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All the active data collected cover the whole production of the corresponding products, and therefore can represent the average production and emission status.

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All the counted active data related to the manufacturing process of wool jacquard knitted top/body/longjohn All right reserved by www.sinote 所有权利归www.sinotextile.net所有,任何未经授权的使用, are collected.

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2.2.8.3 Reliability

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eport No. TSNThe primary data of wool, yarn, fabric and wool jacquard knitted top/body/longjohn production were collected w.sinotextile and provided by Qingdao Sino Textile Technique Co., Ltd and its suppliers, without an onsite verification of the data. The secondary data related to all production process are from LCA for Experts 10.7.1.28 (GaBi), ecoinvent 3.9 所有权利归www.sinotextile.net所有,任何未经授权的使用, database and literature. All right reserved by www.sinot

2.2.8.4 Consistency

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Each part of data is collected and selected through accordant quality requirements and rules.

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Report No. TSNT01679381 thorized use is illegal. The data, methods and modelling processes in this study can be reproduced in the Experts 10.7.1.28 (GaBi) calculation software. All right reserved by the software. 新有权利归www.sinotextile.net所有

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### 2.2.8.6 Data quality evaluation

			Table II-1: Data Quality Evalua	ation		_
		Data Categ	ory	Data Source	Data Quality	
ort No. TSNT01679781 sinotextile.net, any unau	y data <sub>ed</sub> us	Site-specific data 非法。	Inputs, outputs, energy consumption	Data sheets	+++	
xtile.net所有,证明不经验。	dary data	Transportationed b 所有权利归www.	Raw material transportation (from supplier gate to factory gate) and product transportation (from factory gate to Qingdao port)	thorized use is illega 的使Baidu Map	al. ++ Report No. eserved by www.sinotex 到归www.sinotextile.nel	
		Emission factors	Raw materials, Waste, energy, resource, etc.	LCA for Experts 10.7.1.28 (GaBi) ecoinvent 3.9 Literature	##	

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Estimate data	Low quality	+
Secondary data	Medium quality	Penort No. 1
Primary data	High quality	ww.shotext
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2.2.9 Allocation Procedures

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### 2.2.9.1 Allocation of foreground data

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w.sinotextile. In the system studied, the allocation rules are needed for production of the workshops. For example, in the extile.net所有 manufacturing of wool jacquard knitted top, the data of energy consumption (Electricity), tap water, Waste generation and packaging are the overall data of the whole workshop, which need to be allocated by value,

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2.2.9.2 Recycling

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Recycling does not take place within the system boundaries.

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eport No. TSNTU1679301 /w.sinotextile **7**97 any unauthorized use is illegal. extile.net所有,任何未经人**Methodology and Impact Types** 

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A detailed description is provided in Chapter 3 www.sinotextile.net, any unauthorized use is illegal.

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2.2.11 Software and Database

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The LCA modelling and calculations are made with LCA for Experts 10.7.1.28 (GaBi) software with database in eport No. TSI both Experts 10.7.1.28 (GaBi) and ecoinvent 3.9.

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No critical review is required. The critical review may be performed in the future if required.

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Intertek Testing Services (Tianjin) Ltd.

1-6F, Block B, No.7, Guiyuan Rd., High-tech Zone, Tianjin, China 300384

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3. LIFE CYCLE IMPACT ASSESSMENT (LCIA)

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Category: Climate Change extile.net所有。3.19 impact

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The climate change is a natural process of global warming which is involved in the radiation balance of the Earth. It is NTO167938 due to greenhouse gas (GHG) emissions in the atmosphere, mainly water vapor (which contributes most to the net any un greenhouse effect), carbon dioxide (CO<sub>2</sub>), and methane (CH<sub>4</sub>). The GHGs absorb infrared radiation and increase the atmospheric temperature.

This originally natural phenomenon is becoming problematic because of GHG emission increase due to human activities. eport No. TSN Each GHG has a different warming potential. It is calculated based a reference called the warming potential of CO<sub>2</sub>, and w sinotextile a time-horizon, 100 years here (GWP100). Each GHG is assigned with a characterization factor expressing how many times more important the warming potential of this greenhouse gas is compared to CO2, whose characterization factor equals 1 when averaged over the time horizon considered net, any unauthorized to the considered net and unauthorized to the considered net any unauthorized to the considered net and the considered net any unauthorized to the considered net and the considered net any unauthorized to the considered net and th

ort No. TSNT0167938 The calculation methodology is adopted from IPCC 2021 and the characterization factors are from IPCC AR6 according et, any un 所有权利归www.sinotextile.net所有 to the requirements of ISO 14067:2018.

The GHGs and their characterization factors for GWP100 are listed in Table III-1.

eport No. TSNT01679381 Table III-1: Characterization Factors for The Climate Change Impact Category, 100 Years

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xtile.net所有,	Category Name	Category Unit Repo	rt Coefficient inotextile.net, ar	Operatorzed +经類权的使用,	Impact <sub>gal</sub> . 均属:Unit	Impact Name
	IPCC-Greenhouse effect 所有 (direct, 100 years)	权利归www.sinotext g CO <sub>2</sub> e	ile.net所有,证的 1	X	All right res	Report No. TSNTt 16 Carbon dioxide (CO2)tile.net, a erver dioxide (CO2)tile.net所有,任何
	IPCC-Greenhouse effect (direct, 100 years)	g CO₂e	7,380	Х	所有权利 g	Carbon tetrafluoride (CF <sub>4</sub> )
TCNI	IPCC-Greenhouse effect (direct, 100 years)	g CO₂e	29.8	Х	Ф	Methane (CH <sub>4</sub> , fossil)
ort No. TSN sinotextile.n tile.net所有,	IPCC-Greenhouse effect (direct, 100 years)	g CO₂e	27	Х	DO D	Methane (CH <sub>4</sub> , non-fossil)
	IPCC-Greenhouse effect (direct, 100 years)	g CO2e Repo	rt No. TSNT0167 inotex265 net, ar	9381 <sub>ly</sub> unau <mark>x</mark> horizec 未经授权的使用,	use is illegal. 均属非 <b>8</b> 5。	Nitrous oxide (N₂O)
	IPCC-Greenhouse effect 所有 (direct, 100 years)	权利归www.sinotext g CO <sub>2</sub> e	14,600	Х	All right res	Report No. 151 eHFC-23 (CHF3)sinotextile.net, a Elwww.sinotextile.net所有,任何

According to the requirements of ISO 14067:2018, specific GHG emissions of the partial carbon footprint of the systems studied shall be included and documented separately. Table III-2 shows the information about the specific eport No. TSNGHG emissions.
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### **Table III-2: Impact Categories of Carbon Footprint**

rt No. TSN	101679381 Specific GHG Emissions	Reference Unit	Calculation Methodology
notextile.r e.net所有,	Fossil and biogenic GHG emissions and removals	Rekg COze. TSN	Climate change, ISO 14067 GWP
	GHG emissions and removals from direct land use change (dLUC)	y www.sindeer sinotextile.net所有 kg CO <sub>2</sub> e	Climate change-Emissions from Land use change, ISO. TSN 14067 GWP
	Aircraft GHG emissions	kg CO₂e	Climate change-Air craft emission, ISO 14067 GWP
t No. TSN	Biogenic carbon in product	kg CO₂e	Climate change, Biogenic GHG emission, ISO 14067 GWP

Additionally, Net fossil and biogenic GHG emissions and removals are reported separately in the study report, as All right reserved by www.sinotextil 所有权利归www.sinotextile.net所有,任何未经授权的使用, well Report No. TSNT0167938 All right reserved by www.sinotextile.net, any un

### 3.2 LCIA Methodology

A life cycle assessment (LCA) approach is adopted to make the analysis of product carbon footprint. This consists of considering all direct and indirect environmental effects for the realisation of a function or for a declared unit (see eport No. TSN Chapter 2). thorized use is illegal.

w.sinotextile. The utilised methodology makes it possible to estimate the emissions, and to evaluate afterwards the partial carbon extile.net所有 footprint during the life cycle of the studied system. This "Life Cycle Assessment" is standardised in the ISO 14040:2006 and ISO 14044:2006 norms, and the "Product Carbon Footprint" is standardised in the ISO 14067:2018 norm. Report No. TSNT0167938 Calculations are made with LCA for Experts 10.7.1.28 (GaBi), sphera®'s calculation software. All right reserved by www.sinotextile.net, any un

The main steps of the assessment are the following:

- elaboration of the process tree for each studied system,
- description of the incomes and outcomes of each process, and
- data research of consumptions and emissions ("elementary streams") for each process.

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Figure III-1: Scheme of a Process in the Model Tree is illegal.

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Each process is characterised by:

one (or more) streams of matter incoming from another process,

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consumption of energy, water, and mineral resources, and 1679381

emissions of pollutants (in air, water) soil) w.sinotextile.net, any unauthorized use is illegal. 所有权利归www.sinotextile.net所有,任何未经授权的使用,均属非法。

Report No. TSNT0167938 Once all processes are identified, their integration makes it possible to set up the whole system erved by www.sinotextile.net, any un The modelling of the studied declared unit ends up in a process tree, designed to make it possible to model different systems and to distinguish the investors are the possible to model. different systems and to distinguish the impacts of the different phases of the studied system. The environmental balance is calculated by aggregating the elementary flows of the different processes. As a result, all the direct and eport No. 1 sindirect elementary flows are automatically attributed to the declared unit.

extile net in the LCIA phase, the different emissions are grouped in categories according to the degree of impact on environmental problems, climate change is the specific impact category in this study. For the impact category, some characterisation factors are associated to each emission value to express this effect on the global warming in a common unit (e.g., "kg CO<sub>2</sub>e" is a unit for comparing the radiative forcing of a greenhouse gas to that of CO<sub>2</sub>).

The carbon footprint thus can be quantified and evaluated, and the most contributing phases can be identified.有,任何未经 Subsequently, some measures can be taken to prevent or limit the carbon footprint of these phases. The LCA approach can also help prevent taking decision about life cycle stages that only transfer the carbon footprint from one stage to another.

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#### Raw materials

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Includes resource use and emissions associated with the production of all the main raw materials, which production of all the main raw materials. are raw wool, wool yarn, fabric, accessories, packaging materials..., plus the transportation of them tow sinotextile.net, any un 所有权利归www.sinotextile.net所有,任何未经控 the factory gate, from cradle.

#### Manufacturing process

Includes resource use and emissions associated with the manufacturing process of the target product and all the additives taking part in the process from cradle.

### <sub>eport No.</sub> TS Packaging

ithorized use is illegal. w sinotextile Includes resource use and emissions associated with the packaging materials of the target product from cradle.

#### Transportation

TSNT01679381 Includes resource use and emissions associated with the raw materials delivery from cradle and the target product 所有权利归www.sinotextile.net所有,任何 delivery to the Qingdao portant reserved b

### 4. LIFE CYCLE INVENTORY (LCI) ANALYSIS

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Primary data on manufacturing process of scoured wool, yarn, fabric and the wool jacquard knitted top/body/longjohn were collected and provided by Qingdao Sino Textile Technique Co., Ltd and its suppliers. All the detailed data please refer to the following tables:

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Tables from IV-1-1 to IV-1-10 show the LCI results of all relative raw data collection of manufacturing of light/dark coloured wool yarn (1/74Nm))

port No. TSNT01679381 w.sinotextile.net, any unauthorized us**Table Ly-1-1**: Raw Data Collection— Manufacturing of Scoured Wool 何未经授权的使用,均属非法。

otextile.n .net所有 <mark>/</mark>	任何未经授权的使用,均属非法。 (Zhejiang New Chuv	va Wool Co., Ltd)		•
	Report No. TS Product Name: Scoured Wool <sub>right</sub> reserved by www.sinotextile 所有权利归www.sinotextile.net所	SNT01679381 e.net, any unauthorized use is illegal. e.net, 在何未经授权的使用,均属非法。	Report No. TSN	IT01679
	Manufacturing 1 kg of Scoured Wool	All right reserve	Report No. 151 d by www.sinotextile. ow sinotextile.net所有	net, any . 任何未
	Item	Consumption 所有权利归w	Unit	
	Material Consumption			
No. TSN	Greasy wool thorized use is illegal.	1.3697	kg/kg	•
	Sodium carbonate,均属非法。	0.008	kg/kg	
IEUMA	Detergent Report No. TSN	T01679381 net, any unauth@i0181use is illegal.	kg/kg	•
	Energy & Resource Consumptionreserved by www.sinotextile.net所有,	任何未经授权的使用,均属非法。	TSN TSN	IT01679
	Tap water 所有权利归www.sinotextile	12.0153	kg/kg <sub>otextile</sub> .	net any
	Electricity- National Grid	0.3185 All right reserve 新有权利归w	www.sindkWh/kgnet所有	,任何未
	Self-produced photovoltaic power generation	0.2640	kWh/kg	
	Purchased steam (Pressure:0.6MPa, Temperature:200°C )	1.9568	kg/kg	•
	Diesel for forklift	0.0016	kg/kg	•
lo. TSN	Consumables norized use is illegal.	0.0000	¥ /kg	
rextile.	Parts - Hardware	0.0425	¥ /kg	•
	Parts - Machine accessories Report No. TSN	101679381 Det any unauth 0.0394 ise is illegal.	¥ /kg	
	Lubricating oil - gear oil All right reserved by www.sinotextile.	任何未经授权的0.0382	g/kg, No. TSN	IT01679
	Lubricating oil - butter	0.0132	d by wwg/kgrotextile.	net, any . 任何未
-	Lubricating oil - hydraulic oil	0.0260 所有权利归w	ww.sinotextile.netFiff	, Tion
	Waste Generated			
	Wastewater - treated in own ETP	12.6803	kg/kg	
	Fallen wool (recycled)	0.0059	kg/kg	
extile.n	Waste short wool (recycled)	0.0488	kg/kg	
et所有,	Hazardous Waste (Waste oil)	0.0475	g/kg	
	Hazardous Waste (Packaging materials for chemicals) No. TSN	101679381 net, any unauthのi1264ise is illegal.	g/kg	
<del>-</del>	Carbon dioxide emissioned come from diesel combustion	任何未经授权的0.0051	kgCO₂e/kg <sub>o</sub> ⊤SN	T01679
	Carbon dioxide emissioned from sodium carbonate	0.0033	d by kgCO2e/kgextile.	net, an) ,任何末
	CH <sub>4</sub> generated from Wastewater treatment	0.4621 所有权利归W	ww.singcO₂e/kg	, 1113
	Solid content in sludge (Combustion power generation)	0.2571	kg/kg	
TCN	Water content in sludge	0.3142	kg/kg	
lo. TSN textile.n	Evaporation and loss of water	0.9716	kg/kg	
et所有,	HFCs generated from refrigerant in air conditioners	701679381 0.0121	gCO₂e/kg	
	Transport of Raw Materials and Waste Report No. 15N	T016/9301 net, any unauthorized use is illegal. net, any unauth使用 均属非法。		
	By ship All right reserved by www.sinotextile.net所有	任何未至1976年100.0000	Rekmt No. TSN	T01679
	By truck	120.3453 u right reserve	d by wwwkminotextile.	net, any 任何末

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port No. TSNT



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Table IV-1-2: Raw Data Collection- Manufacturing Of Greige Wool Sliver (Finer Than 70s) (Zhejiang New Chuwa Wool Co., Ltd)

Product Name: Greige Wool Sliver (Finer Than 70s)

port No. 13N11 N.sinotextile.ne	t, any unauthorizetelge Woorshiver (Finer Than 705)			
extile.net所有,	Manufacturing 1 kg of Greige Wool Sliver (Finer Than 70s) TSNT01679381	s illegal.		
	Item All right reserved by www.sinotextile.ic.红 生何未经授权的使用,均属和	Consumption	Unit	01679381
	Material Consumption 所有权利归www.sinotextile.net时间,	Re	port No. TSN II	t any una
	Scoured wool All rig	nt reserve by www.	ktile.kg/kg有,	任何未经授
	Wool spinning lubrication agent	0.0068	kg/kg	
TCMT(	Antistatic agent	0.0119	kg/kg	
port No. TSNT( w.sinotextile.ne	Energy & Resource Consumption			
extile.net所有,'	Electricity- National Grid	legal. 0.9213	kWh/kg	
ı	Purchased steam (Pressure:0.6MPa, Temperature:200°C )e.net, any unauthorized 均属非法	0.1186	kg/kg	
ı	Consumables 所有权利归www.sinotextile.net所有,任何未经	0.0026 <sub>Rej</sub>	port I¥√kgSNT(	01679381 t, any una
	Parts – Hardware All rig	nt rese0:0052y www	v.sino¥/kg vtile ne kg	任何未经授
	Parts - Machine accessories	0.6335	¥ /kg	
	Lubricating oil - gear oil	0.1829	g/kg	
	Lubricating oil – butter	0.0390	g/kg	
port No. TSNT	Lubricating oil - hydraulic oil gal	0.1767	g/kg	
<sub>N</sub> .sinotextile.ne extile.net所有,	Packaging 的使用,均属非法。			
2Xtile	Plastic bag (polyethylene) Report No. TSNT01679381	legal. 0.0025	kg/kg	
	Waste Generated All right reserved by www.sinotextile.net, all righ		ort No. TSNT(	
	Waste wool sliver (recycled) 取利归www.sinotextile.ii	0.1115 Re	v.sinckg/kgle.ne	
	Hazardous Waste (Waste oil)	有权利则0.0551sinote	ktile.ngt附相。	住門//
	HFCs generated from refrigerant in air conditioners	2.3058	gCO₂e/kg	
	Transport of Raw Materials and Waste			
	By truck	28.7273	km	

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Table Iv-1-3: Raw Data Collection- Manufacturing of Shrinkproof Greige Wool Sliver (Finer Than 70s)

rt No. TSN1 notextile.n le.net所有,	Product Name: Shrinkproof Greige Wool Sliver (Finer Than 70s) Report No. TSNT01679381	is illegal.	
	Manufacturing 1 kg of Shrinkproof Greige Wool Sliver (Finer Than 70s)	F.Z.	
•	Item 所有权利归WWW.siii	Consumption R	port No. TSN Unit
	Material Consumption All rig	the reserved by www	extile.net所有,
+ No TSNT	Greige wool sliver (finer than 70s)	1.0227	kg/kg
	Softener	0.0600	kg/kg
t No. TSN1 notextile.n	Sodium pyrosulfite use is illegal.	0.0167	kg/kg
le.net所有,	Sulphuric acid (98%)	0.0495	kg/kg
	DUROSLIP RT (Quaternized fatty amine ethoxylate) notextile.net, any unauthorized use is	0.0019	kg/kg
	Resin finishing agent (12.5% solid content) inotextile nething.	0.1594 <sub>Re</sub>	portkg/kgrsN
	Sodium carbonate	tht res <mark>0.0425</mark> by ww	w.sirkg/kg
	Sodium hypochlorite	有权利0.2350 <sup>/.sinot</sup>	kg/kg
	Energy & Resource Consumption		
	Tap water	19.0661	kg/kg
rt No. TSN1	Electricity- National Grid	0.6424	kWh/kg
notextile.n	Purchased steam (Pressure:0.6MPa, Temperature:200°€)	1.6224	kg/kg
ile.net所有,	Consumables TSNT01679381	0.0002	¥/kg
	Parts – Hardware Report No. 19 your parts – Hardware 均属非	5. 0.0092	¥/kg
	Parts - Machine accessories 有权利是www.sinotextile.net所有,任时未经过	0.1601 R	port¥l/kg <sup>TSN</sup>
	Lubricating oil - gear oil All rig	ht res0.0909 <sup>by ww</sup>	w.simotextile. extileg/kg所有,
	Lubricating oil – butter	0.0159	g/kg
	Lubricating oil - hydraulic oil	0.0490	g/kg
	Packaging		
rt No. TSNT	Plastic bag (polyethylene) illegal.	0.0031	kg/kg
notextile.n	Waste Generated 均属非法。		
le.net所有,	Waste wool sliver (recycled)	illegal.0.0046	kg/kg
	Wastewater - treated in own ETP Report No. 15N10110 any unauthorized use is Wastewater - treated in own ETP HOLDER TO THE STATE OF THE	20.1008	kg/kg
	Carbon dioxide emissions from sodium carbonate	0.0177 R	por kg/kg
		ht resorzo37 by ww	w.sill.kg/kg 有
	Solid content in sludge (Combustion power generation)	0.0173	kg/kg
	Water content in sludge	0.0212	kg/kg
rt No. TSN1	Evaporation and loss of water	0.5605	kg/kg
notextile.n le.net所有,	HFCs generated from refrigerant in air conditioners	5.9439	gCO₂e/kg
ie.iie.iiiia	Transport of Raw Materials and Waste Report No. TSNT01679381	illegal.	
	By truck  All right reserved by www.sinotextile.net, any unauthorized use is  All right reserved by www.sinotextile.net所有,任何未经授权的使用,均属非常	33.8782	km eport No. TSN

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### **Table IV-1-4: Treating of Wastewater** (Zhejiang New Chuwa Wool Co., Ltd)

No TSNi	(Zhejiang New Chuwa Wool Co., Ltd)			-
notextile.r e.net所有,	Product Name: Treating of Wastewater  Report No. TSNT01679381  Report No. TSNT01679381	e is illegal. 组法		
	Treating 1 kg of Wastewater right reserved by www.sinotextile.net所有,任何未经授权的使用,均属		· No TSN	T0167
	Item	Consumption	w sin Unit tile.n	et, ar 任何:
	Material Consumption All ri	ight reserved by wasinot	extile.net所有,	仕りり
	Liquid caustic soda, 32%	0.0037	kg/kg	
ort No. TSN	Ferric sulfate	0.0064	kg/kg	
inotextile.r	Polyaluminum chloride (PAC)	0.0030	kg/kg	
ile.net所有,	Polyacrylamide (PAM)  Report No. TSNT01679381  Report No. TSNT01679381	illegal0.0001	kg/kg	
	Energy & Resource Consumption by www.sinotextile.net, and 是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	法。		
	Electricity- National Grid 所有权利归www.sinotextile.net所有,在1944年	0.0082 R	epokWh/kg <sup>SN</sup>	T0167 et, ar
	Parts – Hardware All ri	ight re 0.0001 by ww	w.sin¥/kg <sub>后有</sub> ,	任何
	Parts - Machine accessories	<sup>有权末</sup> 0.0007	¥ /kg	
	Lubricating oil - gear oil	0.0002	g/kg	
	Lubricating oil – butter	0.0000	g/kg	
ort No. TSN	Lubricating oil - hydraulic oil egal.	0.0018	g/kg	
sinotextile.r tile.net所有,	Waste Generated,均属非法。			
ile.neuma,	Wastewater discharge Report No. TSNT01679381	illegal0.8159	kg/kg	
	Sludge (Combustion power generation, solid content 45%) lener, 如此 如果	去。 0.0170	kg/kg_	T0167
	Hazardous Waste (Waste oi)	0.0013 R	eport g/kg	et. aı
	Hazardous Waste (Packaging materials for chemicals)	ight resolved by www.sinot	extileg/kg所有,	任何
	Evaporation and loss of water	0.1747	kg/kg	
	HFCs generated from refrigerant in air conditioners	0.0006	gCO₂e/kg	
	Transport of Raw Materials and Waste			
ort No. TSN	Transport of Raw Materials and Waste  (Bytruck 1 et, any unauthorized use is illegal. et, any unauthorized plants.)  任何未经授权的使用,均属非法。	44.5031	km	

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Table IV-1-5: Raw Data Collection— Manufacturing of Shrinkproof Light Coloured Wool Sliver (Finer Than 70s)

	(Zhejiang Houyuan Textiles Inc.)	ea woor silver (Fille	51 111a11 703)	
ort No. TSNT .sinotextile.ne xtile.net所有,	Product Name: Shrinkproof Light Coloured Wool Sliver (Finer Than 70s) Report No. TSNT01679381	<sub>ie</sub> is illegal.		
	Manufacturing 1 kg of Shrinkproof Light Coloured Wool Sliver (Finer Than 70s)	<b>国丰</b> 法。		-1670
	Item 所有权利归www.sinotextile	Consumption Re	port Unit ile n	01679 et. any
	Material Consumption All	right reserved by www.sinote	w.sinote extile.net所有,	任何未
	Shrinkproof greige wool sliver (finer than 70s)	1.0091	kg/kg	
	Reactive dyes	0.0126	kg/kg	]
ort No. TSNT inotextile.ne	Levelling agent (34% solid content)	0.0112	kg/kg	
ile.net所有,	Soaping agent (30% solid content)	0.0055	kg/kg	
	Softener (10% solid content)  Report No. 1384	記。 0.0010	kg/kg	
- -	Caustic soda flakes All right reserved by sometime.net所有,任何未经过知识的	0.0022	port kg/kg SN	101679
	Sodium carbonate	right resel.0279 y www	v.sinkg/kg <sup>ile.n</sup>	et, any 任何未
	Glacial acetic acid	所有权利 0.0159 sinot	kg/kg	121311
	Energy & Resource Consumption			
	Rainwater	3.4984	kg/kg	
ort No. TSNT	River water	29.9854	kg/kg	
inotextile.ne	Reclaimed water 均属非法。	24.5555	kg/kg	
ile.net所有,	Electricity- National Grid	0.6088	kWh/kg	
	Self-produced photovoltaic power generation Report No. 13th any unauthorized use	記 0.1564	kWh/kg	
	Purchased steam (Pressure:0.6MPa, Temperature:200°C')	4.2076 Re	portkg/kg <sup>TSN</sup>	101679
	Packaging	right reserved by www	W.sinotextile.ii extile.net所有,	任何末
	Plastic woven bag (polyethylene)	0.0053	kg/kg	
	Waste Generated			
Ī	Sludge (Combustion power generation, solid content 30%)	0.0892	kg/kg	
rt No. TSNT	Wastewater - treated in own ETP	58.0065	kg/kg	
notextile.ne	Evaporation and loss of water	4.2300	kg/kg	1
le.net所有,	Waste wool sliver (recycled)	is illegal, 0.0084	kg/kg	
Ţ	HFCs generated from refrigerant in air conditioners notextile.net, any unauthorized use	注: 3.9373	gCO₂e/kg	
	Transport of Raw Materials	Re	port No. TSN	01679
	hi Hivia	right res 5.5077 www	//.sinotextile.ii extile.ikm所有,	任何未
L		FEET NO THIS WAY STILL		_1

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T01679381

Table IV-1-6: Raw Data Collection- Manufacturing of Shrinkproof Dark Coloured Wool Sliver (Finer Than 70s) (Zhejiang Houyuan Textiles Inc.)

Product Name: Shrinkproof Dark Coloured Wool Sliver (Finer Than 70s)

rt No. TSN I Product Name: Sprinkproof Dark Coloured Wool Sliver (Finer I nan 705) inotextile. het, any unauthorized by sprinkproof Dark Coloured Wool Sliver (Finer I nan 705)			
Manufacturing 1 kg of Shrinkproof Dark Coloured Wool Sliver (Finer Than 70s)	orized use is illegal.		
Item	使用,均属非产 Consumption	Unit	-24 (7029
Material Consumption 所有权利归www.smotexen	Re	eport No. TSN	T0167938 net, any ui
Shrinkproof greige wool sliver (finer than 70s)	All right reseasons sinot	w.sinotextile extilkg/kg所有	任何未经
Reactive dyes	0.0504	kg/kg	
Penetrant agent (25% solid content)	0.0062	kg/kg	
Levelling agent (34% solid content)	0.0223	kg/kg	
le.net所有 Soaping agent (30% solid content)	0.0221	kg/kg	
Softener (10% solid content)  Report No. 13111010101	rized use is lifegui. 田 均属非去。 0.0021	kg/kg	
Caustic soda flakes All right reserved by www.sinotextile.net所有,任何未经授权的使	0.0022	kg/kg TSN	T0167938
Sodium carbonate	0.0279 by ww	w.sikg/kgtile.	net, any u 任何未经
Glacial acetic acid	所有权利0.0159v.sinot	extile nething kg/kg	TIBAR
Energy & Resource Consumption			
Rainwater	5.0343	kg/kg	
River water	43.1498	kg/kg	
No. TSN TUVS 1930ts.  No. TSN TUVS 1930ts.  otextile. Reclaimed water 均尾非法。	35.2856	kg/kg	
net Flectricity- National Grid	0.7460	kWh/kg	
Self-produced photovoltaic power generation Report No. 15N 81 any unauthor	ized use is lilegal. 田 均属非法。 0.1919	kWh/kg	]
Purchased steam (Pressure:0.6MPa, Temperature:200°C ) → (1.11)	5.6443 R	eporkg/kg TSN	T0167938 net, any u
Packaging	All right reserved by ww	/W.sinotextile.	任何未经
Plastic woven bag (polyethylene)	所有权 <sup>利</sup> 0.0053	kg/kg	]
Waste Generated			
Sludge (Combustion power generation, solid content 30%)	0.0892	kg/kg	
No. TSN Wastewater - treated in own ETP	83.4727	kg/kg	
otextile. Evaporation and loss of water	5.8961	kg/kg	
waste wool sliver (recycled)	0.0084	kg/kg	
HFCs generated from refrigerant in air conditioners notextile.net, any unauthor		gCO₂e/kg	
Transport of Raw Materials ight reserved by With Transport of Raw Materials ight rese	R	eport No. TSN	T0167938 net, any u
By truck	All right re12:4055by ww	w.sinotextile.	任何未经

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Table IV-1-7: Treating of Wastewater

	(Zhejiang Houyuan Textiles Inc.)			
port No. TSNTf w.sinotextile.ne extile.net所有,f	t, any unauthorized use is illegal. Product Name: Treating of Wastewater Report No. TSNT01679381	is illegal. 能法。		
	Treating 1 kg of Wastewateright reserved by www.sinotextile.net所有,任何未经技权的使用,1382		No TSNT	01679381
	Item	Consumption	w.sindinitile.ne	t, any un
	Material Consumption All rig	ght reserved by www 有权利归www.sinot	extile.net所有,	任何未经授
	Ferric sulfate	0.0004	kg/kg	
port No. TSNT	Polyaluminum chloride (PAC)	0.0003	kg/kg	
y sinotextile.ne	Polyacrylamide (PAM)	0.0003	g/kg	
extile.net所有,	Energy & Resource Consumption Report No. TSNT01679381	illegal.		
	Report No. 13 R		kWh/kg	
	Self-produced photovoltaic power generation	0.0004 R	porkWh/kg <sup>NT</sup>	01679381 t, any un
	Waste Generated All ric	ght reserved by ww	W.sinotextile.in oxtile.net所有,	任何未经授
	Wastewater discharge	0.5823	kg/kg	
	Circulating water untreated	0.3966	kg/kg	
	Sludge (Combustion power generation, solid content 30%)	0.0011	kg/kg	
port No. TSNT	CH <sub>4</sub> generated from Wastewater treatment	0.0014	kgCO₂e/kg	
w sinotextile.ne	Evaporation and loss of water	0.0210	kg/kg	
extile.net所有,	Transport of Raw Materials and Waste	illegal.		
	By truck  By truck  T. (日本经授权的使用,均属非常	29.8271	km	n1679381

	所有权利归wTable IV-1-8: Treating of Reclaimed Water (Zhejiang Houyuan Textiles Inc.) All right	Repo reserved by www.s <del>文利州Jwww.sinotex</del> t	rt No. 15N i inotextile.ne ile.net所有,		
	Product Name: Treating Of Reclaimed Water	XXIII JAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			
•	Treating 1 kg of Reclaimed Water				
. No TONT	Item <sub>381</sub>	Consumption	Unit		
ort No. TSNT sinotextile.ne	Material Consumption 主法。				
ile.net所有,	Citric acid	0.0088	g/kg		
	Oxalic acid Report No. 15N to tall the second by www.sinotextile.net, any unauthorized use is life.	0.0097	g/kg		
	Sodium pyrosulfite All right reserved by www.sinotextile.net所有,任何未经授权的证据	0.0091 <sub>Repo</sub>	rt Ng/kg NT	01679 t, any	
	Sodium hydroxide All right	reserv0.0063/www.s	note Tile ile g/kg	任何未	
	Reverse osmosis membrane (polyamide film composite) 所有	0.0042	g/kg		
	Energy & Resource Consumption				
rt No. TSNT	Circulating water untreated	1.0014	kg/kg		
inotextile.ne	Electricity- National Grid 法。	0.0012	kWh/kg		
xtile.net所有,	Self-produced photovoltaic power generation	gal. 0.0003	kWh/kg		
	Waste Generated	3			
	Evaporation and loss of water	0.0014 Repo	kg/kg	01679 t, any	
•	Transport of Raw Materials All right	served by www.s	inotextile ile.net所有,	任何未	
-	By truck 所有	15.0000	km		

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fotal Quality. Assured.

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# Table IV-1-9: Raw Data Collection – Manufacturing of Light Coloured Wool Yarn (1/74Nm)

Product Name: Light Coloured Wool Yarn (1/74Nm)		
net, any unauthobes. 一种,均属非法。 Manufacturing 1 kg of Light Coloured Wood Vorm(1/74Nm))	TSNT01679381	
Manufacturing 1 kg of Light Coloured Wool Yarn (1/74Nm)  Item  All right reserved by www.sinctex		Unit
-2	有,任何未经Consumption	Report No. TS
Material Consumption	4 OC42 All right resel	- a by www.sinotextll
Shrinkproof light coloured wool sliver (finer than 70s)	1.0612 All right resel	www.sinckg/kge.netFin
Wool spinning lubrication agent	0.0032	kg/kg
Antistatic agent	0.0021	kg/kg
Waxany unauthorized use is illegal.   Waxany unauthorized use is illegal.   June   Waxany unauthorized use is illegal.	0.0016	kg/kg
Energy & Resource Consumption	NT01679381	
Lubricating oil Report reserved by www.sinotextile	net, any unauth 0.0002 <del>任何末经授权的</del> 規則。	kg/kg
Diesel for forklift  All right reserved by 新有权利归www.sinotextile.net所	0.0022	kg/kg t No. TS
Electricity- National Grid	7.9414	
Self-produced photovoltaic power generation	0.6659 所有权利归	kWh/kg
Purchased steam (Pressure:0.6MPa, Temperature:200°C )	0.2823	kg/kg
Packaging		
Plastic bag (polyethylene)	0.0465	kg/kg
Corrugated box 使用,均属非法。	0.0769	kg/kg
Paper tube	NT01679381 0.0409	kg/kg
Packing belt (PP)  Report No. 13  Report No. 13	net, any unauth 0.0006 均属非法。	kg/kg
Waste Generated All right reserved by Maste Generated 新有权利用www.sinotextile.net所有	<b>有,任何</b> 未经过人的人。	Report No. TS
Waste yarn (recycled)	0.0299 All right reser	ved by wkg/kg netin
Waste wax (recycled)	0.0002 所有权利归	kg/kg
Waste packing belt (PP) (recycled)	0.0005	kg/kg
Waste paper tube (recycled)	0.0000	kg/kg
Waste wool (recycled)	0.0093	kg/kg
Carbon dioxide emissioned come from diesel combustion	0.0070	kgCO₂e/kg
HFCs generated from refrigerant in air conditioners	NT01679381 0.0215	kgCO₂e/kg
Water loss (discrease in yarn moisture regain rate), sinotextile	net, any unauthorized use is illegal.	kg/kg
Transport of Raw Materials right reserved by www.sinotextile.netFif	<b>,任何未经授权的证</b> 用,约例	Report No. TS
By truck	76.4955 All right resel	L less support sinotextile

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All right reser Number: TSNT01679381 任何未经授 所有权利归www.sinote

Table IV-1-10: Raw Data Collection- Manufacturing of Dark Coloured Wool Yarn (1/74Nm) (Zheijang Xinao Textiles Inc.)

	(Zhejiang Xinao	Textiles Inc.)	,	
[ [10. 1-1	579381 oduct Name: Dark Coloured Wool Yarn (1/74Nm) Report No. TSI	NT01679381	se is illegal.	
Ma	anufacturing 1 kg of Dark Coloured Wool Yarn(1/74Nm)	inet, any difference, blue inet, and blue inet,	属非法。	
Iter	m 所有权利归www.sinotextile.tit	Consumption	n RejUnit No. TSN	17016793 Tet, any
Ma	aterial Consumption	All	right reserved by www.sinotextile.	, 任何未给
Shr	rinkproof dark coloured wool sliver (finer than 70s)	1.0612	所有权利归www.smotokg/kg	
	ool spinning lubrication agent	0.0032	kg/kg	
o. TSN TO16	tistatic agentized use is illegal.	0.0021	kg/kg	
extile.n <del>et, 2</del> et所有, <b>Ma</b>	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0.0016	kg/kg	
Ene	ergy & Resource Consumption Report No. TSN1	et, ally under the	is illegal·	
Lut	bricating oil All right reserved by www.sinotextile.net所有,	任何未经授权的图 0.0002	kg/kg	VT01679
Die	esel for forklift	0.0022	Report No.	net, any 任何未
Ele	ectricity- National Grid	7.9414	right reserve by find kwh/kgethfe	,仕们不
Sel	f-produced photovoltaic power generation	0.6659	kWh/kg	7
Pur	rchased steam (Pressure:0.6MPa, Temperature:200°C)	0.2823	kg/kg	7
Pac	ckaging		<u>.</u>	
o. TSN <del>1016</del> extile.nePla	stic bag (polyethylene)	0.0465	kg/kg	7
et所有,Cor	rrugated box	0.0769	kg/kg	
Par	per tube Report No. TSN	01679381 et, any unautho 0.0409se	is illegal. kg/kg	7
Pac	cking belt (PP) All right reserved by www.sinotextile.net所有,	任何未经授权的使用。0.0006	p.kg/kgyo. TSN	VT01679
Wa	aste Generated	All	right reserved by www.sinotextile.netf所有	net, any 任何未
Wa	aste yarn (recycled)	0.0299	所有权利归www.sinotexthe.incl	,
Wa	aste wax (recycled)	0.0002	kg/kg	
Wa	aste packing belt (PP) (recycled)	0.0005	kg/kg	
Wa	aste paper tube (recycled)	0.0000	kg/kg	
o. TSN <del>1016</del> extile.neWa	aste wool (recycled)	0.0093	kg/kg	
et所有, Car	rbon dioxide emissioned come from diesel combustion	0.0070	kgCO₂e/kg	
HF	Cs generated from refrigerant in air conditioners	et, any unautho 0.0215 <sup>se</sup>	is illegal. kgCO₂e/kg	
Wa	ater loss (discrease in yarn moisture regain rate) le net file	任何未经授权的使用,50.0156	Rekg/kgNo. TSN	VT01679
	ansport of Raw Materials	All	right reserved by www.sinotextile.	net, any 任何未
Ву	truck	76.4955	所有权利归www.sinotextile.netsing	

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Tables from IV-2-1 to IV-2-6 show the LCI results of all relative raw data collection of manufacturing of semifinished jacquard knitted fabric/interlock knitted fabric/rib knitted fabric in heather rose/mood indigo colour.

port No. TSNT01679381

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tile.net所有,	Jacquard Knitted Fabric (	nej, any unau un=151	
	Product Name: Semi-Finished Heather Rose Jacquard Knitted	. u. :ht roserved	Report No. TSNT01 by www.sinotextile.net,
	Manufacturing 1 kg of Semi-Finished Heather Rose Jacquard Kr	nitted Fabric 所有权利归ww	w.sinotextile.neth/137
	Item	Consumption	Unit
rt No. TSNT	Material Consumption is illegal.		
inotextile.ne	Light coloured wool yarn (1/74Nm)	0.6005	kg/kg
le.net所有,	Dark coloured wool yarn (1/74Nm) Report No. TSNT		kg/kg
	Lubricating oil All right reserved by www.sinotextile.net所有.	壬何未经授权的使因.0003	kg/kg
	Energy & Resource Consumption Report No. 15NT		
	Electricity- national grid	2.6544ll right reserved	w.sinoteWh/kgt所有,任何
	Waste Generated	PITEIXTUTA	
	Waste yarn(recycled)	0.0528	kg/kg
	Waste lubricating oil (recycled)	0.0008	kg/kg
t No. TSNT	Waste packaging paper (recycled)	0.1288	kg/kg
.sinotextile.ne ktile.net所有,	Waste packaging plastic (recycled)	0.0034	kg/kg
	Transport of Raw Materials Report No. TSNTO	01679381 t. any unauthorized use is illegal.	
Ī	By truck All right reserved by www.sinotextile.net所有.	上何未经授权的(789.8026) 上何未经授权的(789.8026)	km, TSNT01

Table IV-2-2 Raw Data Collection - Manufacturing of Semi-Finished Mood Indigo www.sinotextile.net, any una Jacquard Knitted Fabric (

[ No. 13141	Manufacturing 1 kg of Semi-Finished Mood Indigo Jacquard Knitt	d Fabric	
ort No. TSNT .sinotextile.ne	titem unauthorized 均属非法。	Consumption	Unit
le.net所有,	Material Consumption	79381	
	Light coloured wool yarn (1774min)	ny unauthorized use is in sylvania ny unauthorized	kg/kg
	Dark coloured wool yarn (1/74Nm) www.sinotextile.net所有,	0.3590	Repkg/kglo. TSNT
	Lubricating oil	0.0016   right reserve	d by www.kg/kg et所有,
	Energy & Resource Consumption	所有权利归WV	VW.51110 CO.1111
	Electricity- national grid	2.6544	kWh/kg
t No. TSNT	Waste Generated		
notextile.ne	Waste yarn(recycled) 上去。	0.0526	kg/kg
ile.net所有,	Waste lubricating oil (recycled)	79381 0.0008	kg/kg
	Waste packaging paper (recycled)	ny unauthorio.1288 非法。	kg/kg
	Waste packaging plastic (recycled) Hwww.sinotextile.net所有,	0.0034	Repkg/kg o. TSNT
	Transport of Raw Materials	All right reserve	d by www.sinotextile.net所有.
	By truck	789.8025 所有权利归WV	km

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port No. TSNT01679381 w.sinotextile.net, any unauthorized use is illegal. extile.net所有,任何未经授权的使用,均属非法。



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Report No. TSNT01679381 .net, any una

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port No. TSNT01679381 Table IV-2+3 Raw Data Collection – Manufacturing of Semi-Finished Heather Rose w.sinotextile.net, any unauthorized useful. 均属非法。 Interlock Knitted Fabric (Figure 1997) The Manufacturing of Semi-Finished Heather Rose (Figure 1997) The Manufacturing of Semi-Finished (Figure 1997) The Manufacturing (Figure 1997) The Manufacturing (Figure 1997) The Ma

Report No. TSN Product Name: Semi-Finished Heather Rose Interlock Knitted Interlock			1
Product Name. Semi-Finished Heather Rose Interiock Knitted i	POLICE VILLOUS NOON PARTY AND		
All right reserved 5)  所有权利归www.sinotextile.net所有	Fabric (100% RWS Wool 190g)	Report No. TSNT	016793
Manufacturing 1 kg of Semi-Finished Heather Rose Interlock Knitted Fabric			et, any U 任何未经
Item	Consumption所有权利归ww	W.sinotextile.llectings	1
Material Consumption			
Light coloured wool yarn (1/74Nm)	1.0526	kg/kg	
Lubricating oil 用,均属非法。	0.0016	kg/kg	
Energy & Resource Consumption Report No. TSNT01679381			
Electricity- national grid right reserved by www.sinotextile.ne	于何未经授权的使 <b>0.7964</b> 事于法。	kWh/kg	016793
Waste Generated 所有权利归www.sinotextic.iicatiita			et, any
Waste yarn(recycled)	0.0526   right reserved	by www.siliotextife, wsinotekg/kglet所有,	任何未经
Waste lubricating oil (recycled)	0.0008 所有权利归WW	kg/kg	
Waste packaging paper (recycled)	0.1288	kg/kg	
Waste packaging plastic (recycled)	0.0034	kg/kg	
Transport of Raw Materials legal			
By truck 权的使用,均属非法。	789.8025	km	
	Manufacturing 1 kg of Semi-Finished Heather Rose Interlock Kntem  Material Consumption Light coloured wool yarn (1/74Nm) Lubricating oil 用	Manufacturing 1 kg of Semi-Finished Heather Rose Interlock Knitted Fabric tem Consumption  Material Consumption  Light coloured wool yarn (1/74Nm)  Light c	Manufacturing 1 kg of Semi-Finished Heather Rose Interlock Knitted Fabric tem Consumption  ight coloured wool yarn (1/74Nm) 1.0526 kg/kg tubricating oil 1 为 1 为 1 为 1 为 1 为 1 为 1 为 1 为 1 为 1

ile.net所有,	BY TEUCK授权的使用,均属-1F/2。	789.8025	кm
E.1104771137	Table IV-2-4 Raw Data Collectio	. TSNT01679381 n ⊢ Manufacturing of Semi-Finished Mo ric (	Papart No. TSN7
	Product Name: Semi-Finished Mood Indigo Interlock I	All right reserv Knitted Fabric (100% RWS Wool 190g) 利归v	ad by www.sinotextile.ii
	Manufacturing 1 kg of Semi-Finished Mood Indigo Inte	rlock Knitted Fabric	
	Item	Consumption	Unit
rt No. TSN1 notextile.n	Material Consumption is illegal.		
sinotextile.net所有,	Dark coloured wool yarn (1/74Nm)	1.0526	kg/kg
	Lubricating oil Report No	TSNT01679381	kg/kg
	Energy & Resource Consumption served by www.sinote	人们。————————————————————————————————————	Report No. TSN7
	Electricity- national grid 所有权利归www.satt	0.7964	ed by wwkWh/kgextile.n
	Waste Generated 所有权利归www.sinotextile.net所有		
	Waste yarn(recycled)	0.0526	kg/kg
-CNI	Waste lubricating oil (recycled)	0.0008	kg/kg
t No. TSN7 notextile.n	Waste packaging paper (recycled)	0.1288	kg/kg
e.net所有,	Waste packaging plastic (recycled)	0.0034	kg/kg
	Transport of Raw Materials Report No	. TSN101679301 xtile.net, any unauthorized use is illegal.	
		所有,任何未经授 <sup>权的</sup> 789.8025	Rep&MNo. TSN7

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### Table IV-2-5 Raw Data Collection – Manufacturing of Semi-Finished Heather Rose Rih Knitted Fahric

.sinotextile. ttile.net所有	NTO1679381 net, any unauthorized use is illegal. Rib Knitted Fabric ( net, any unauthorized use is illegal. Rib Knitted Fabric ( product Name: Semi-Finished Heather Rose Rib Knitted Fabric (95% RWS Wool 5% Elastane 1*1 Rib 230g) Report Fabric (95% RWS Wool 5% Elastane 1*1 Rib 230g) Report Fabric (95% RWS Wool 5% Elastane 1*1 Rib 230g)				
	Manufacturing 1 kg of Semi-Finished Heather Rose Rib Knitted		Penort No. TSN	IT016793	
	Item	Consumption Consumption	d by wwUnitrotextile.	net, any . 任何未约	
	Material Consumption  All right testing the second			, 11132111	
	Light coloured wool yarn (1/74Nm)	1.0476	kg/kg		
ort No. TSI	Polyurethane fiber use is illegal.	0.0429	kg/kg		
sinotextile	Lubricating oil 使用,均属非法。	0.0016	kg/kg		
tile.net所有	Energy & Resource Consumption Report No. TSNT01679381 Report No. TSNT01679381				
	Electricity- national grid All right reserved by www.sinotextile.	任何未经授权的 0.7964 属非法。	kWh/kg	IT016793	
	Waste Generated 所有权利归www.simotextinesis		Report No. 150	net, any	
	Waste yarn(recycled)	0.0476 All right reserve	d by www.sinotsff有	,任何未给	
	Waste lubricating oil (recycled)	0.0008	kg/kg		
	Waste packaging paper (recycled)	0.1288	kg/kg		
	Waste packaging plastic (recycled)	0.0034	kg/kg		
ort No. TSI					
sinotextile tile.net所有	By truck:授权的使用,均属非法。	803.2785	km		

Report No. TSNT01679381

# Table IV-2-6 Raw Data Collection Manufacturing of Carlot Handlest

Product Name: Semi-Finished Mood Indigo Rib Knit	All right reset tted Fabric (95% RWS Wool 5% Elastane 1*1 Rib 2	
Manufacturing 1 kg of Semi-Finished Mood Indigo R	Rib Knitted Fabric	
TSN Item 79381	Consumption	Unit
o. TSI Material Consumption 上法。	·	
Dark coloured wool yarn (1/74Nm)	1.0500	kg/kg
Polyurethane fiber Rep	ort No. 151101010101010101010101010101010101010	kg/kg
Lubricating oil All right reserved by www.sinotex	tile.net所有 任何未经投权的证明 0.0016	Rkg/kg No. TSN
Energy & Resource Consumption	All right reser	rved by www.sinotextile.
Electricity- national grid	0.7964 所有权利归	kWh/kg
Waste Generated	•	
o. TSI Waste yarn(recycled)	0.0500	kg/kg
extile ( Waste lubricating oil (recycled)	0.0008	kg/kg
Waste packaging paper (recycled)	* No. TSNT01679381 0.0160	kg/kg
Waste packaging plastic (recycled)	sinotextile.net, any unauthorized use is included sinotextile.net, any unauthorized use is included and included includ	kg/kg
Transport of Raw Materials Franchis Howww.sinotex	tile.net所有,任则不经过从最后	Report No. TSN
By truck	804.0331	rved by www.sinotextile.

port No. TSNT01679381 <sub>N.</sub>sinotextile.net, any unauthorized use is illegal. extile.net所有,任何未经授权的使用,均属非法。 Page 24 of 51



Report No. TSNT01679381 Report No. TSNT01679381

Total Curille Technique (Total Curille Control of the C

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Tables from IV-3-1 to IV-3-6 show the LCI results of all relative raw data collection of manufacturing of finished jacquard knitted fabric/interlock knitted fabric/rib knitted fabric in heather rose/mood indigo colour.

Report No. 13N101079 unauth Table IV 3-1! Raw Data Collection— Manufacturing of Finished Heather Rose www.sinotextile.net, any unauth Table IV 3-1. Raw Data Collection— Manufacturing of Finished Heather Rose sinotextile.n

Otextiloni	所有,任何未经授权的使用,均属非法。 Macquard Knitted Fabric Report No.  Product Name: Finished Heather Rose Jacquard Knitted Fabric 所有权利。	Report No.	TSNT0		
	Manufacturing 1 kg of Finished Heather Rose Jacquard Knitted		served by www.sinotextile.net	所有,	
	Item	Consumption	Unit		
. 11-	Material Consumption				
Report No. <sub>/ww.sinote</sub>	Semi-finished heather rose jacquard knitted fabric	1.0989	kg/kg		
otextile.net	Sodium fatty alcohol polyoxyethylene ether sulfate	TSNT01679381 0.0110	kg/kg		
	Glacial acetic acid	tile.net, any una 10110 均属非法。	kg/kg		
	Mercerizing softener (40% solid content) www.sinotextile.net	所有,任何未至 0.0879	kg/kg <sub>nort No</sub>	TSNT	
	Wool softener	0.0440	served bykg/kgv.sinote	xtile.ne 所有,f	
	Solubilised press agent	0.0220 所有权利	Hwww.skg/kg	171137	
	Polyester thread for sewing	0.0000	kg/kg		
	Energy & Resource Consumption				
Report No.	Electricity-national grid	1.0248	kWh/kg		
www.sinotex	Water-underground water 国主法。	65.9361	kg/kg		
otextile.net	Natural gas	TSNT01679381 0.1170	kg/kg		
	Purchased steam (Pressure:0.4MPa, Temperature:160 $^{\circ}$ C )	tile.net, any unayt6027ed use is inegatitie.	MJ/kg		
	Midea air conditioner (R32 refrigerating fluid) sinct extile net	所有,任何未经1 <u>0.0000</u>	kg/kgport No.	TSNT(	
	Gree air conditioner (R410A refrigerating fluid)	0.0001 All right res	served bykg/kg/sinotes	所有,	
	Packaging	所有权权	JI)=\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	PVC packing bag	0.0020	kg/kg		
	Waste generated				
Report No.	Waste Finished Knitted Fabric (recycled)	0.0974	kg/kg		
	Rejected material-plastic (recycled)	0.0009	kg/kg		
textile.net	Rejected material-paper (recycled)	TSNT01679381 0.0004	kg/kg		
	Rejected material-fabric (recycled)	tile.net, any una 0.0002 均属非法。	kg/kg		
	Waste water All right reserved by the Market Waste water and waste water All right reserved by the Market Waste water and waste water and waste water water waste waste water waste waste water waste	所有,任何未经过人。 65.9361	kg/kgport No.	TSNT(	
	Transport of Raw Materials	All right res	served by www.sinotex	所有,	
	By truck	211.6750 所有权利	km		

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No. TSNT0167

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# Table IV-3-2: Raw Data Collection- Manufacturing of Finished Mood Indigo Jacquard Knitted Fabric

Manufacturing 1 kg of Finished Mood Indigo Jacquard Knitted	Fabric (100% RWS Wool 190g) Se is	illegal.
Item All right reserved by www.singtextile	et所有,任何 Consumption	Unit
Material Consumption		Report No
Semi-finished mood indigo jacquard knitted fabric	1.0989 All right	t reserved by www.sillot 叔那则www.kg/kgextile.ne
Sodium fatty alcohol polyoxyethylene ether sulfate	0.0110	kg/kg
Glacial acetic acid	0.0110	kg/kg
Mercerizing softener (40% solid content)	0.0879	kg/kg
Wool softener Report N	o TSNT016793810.0440 use is ille	egal. kg/kg
Solubilised press agent	extile.net, any undution extile.net, any undution for 任何未经授 <b>0.02201</b> ,均属非法。	kg/kg
Polyester thread for sewing 所有权利归www.sinotextile.ne	0.0000	kg/kg port N
Energy & Resource Consumption	All right	t reserved by www.sinote 被利用www.sinotextile.ne
Electricity-national grid	1.0247	kWh/kg
Water-underground water	65.9325	kg/kg
Natural gas	0.1170	kg/kg
Purchased steam (Pressure:0.4MPa, Temperature:160 $^{\circ}{ m C}$ )	7.6023	MJ/kg
Midea air conditioner (R32 refrigerating fluid)	0.0000	kg/kg
Gree air conditioner (R410A refrigerating fluid) Report No.	o. TSNT01679381	egal. kg/kg
Packaging All right reserved by www.sinotextile.ne	et所有,任何未经授权的使用,均属和A	Report N
PVC packing bag	0.0020	Lika/kay sinot
Waste generated	所有	t reserved by \$2.05 mile.n. 权利归www.sinotextile.n.
Waste Finished Knitted Fabric (recycled)	0.0973	kg/kg
Rejected material-plastic (recycled)	0.0009	kg/kg
Rejected material-paper (recycled)	0.0004	kg/kg
Rejected material-fabric (recycled)	0.0002	kg/kg
Waste water	TSNT0167938 65.9325	kg/kg
Transport of Raw Materials Report N	o. TSN 101873300 extile.net, any unauthorized use is illo extile.net, any unauthorized use is illo extile.net, 均属非法。	.9

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## Table IV-3-3: Raw Data Collection— Manufacturing of Finished Heather Rose Interlock Knitted Fabric

Report No. 1	Product Name: Finished Heather Rose Interlock Knitted Fabric (	· · · · · · · · · · · · · · · · · · ·	
textile.net	NEDO: -	TSNT01679381 Tilk #8/1000/ PWS Wood 1007415	
	Manufacturing 1 kg of Finished Heather Rose Interlock Knitted	<u> </u>	Unitart No. TS
	HILITANA.	Consumption	Unitort No. TS
	Material Consumption		red by www.sinotextile www.sinotextile.net
	Semi-finished heather rose interlock knitted fabric	1.0331	kg/kg
. No. T	Sodium fatty alcohol polyoxyethylene ether sulfate	0.0110	kg/kg
Report No. T ww.sinotext	Glacial acetic acid orized use is illegal.	0.0110	kg/kg
textile.net	Mercerizing softener (40% solid content)	0.0879 0.0879	kg/kg
	Wool softener Report No. 1	e.net, any unau0.0440 d use is illegal.	kg/kg
	联右权利归www.Sinotextile.ii	有,任何不经12000220	kg/kg
	Polyester thread for sewing	0.0000	yed by kg/kgsinotextile
	Energy & Resource Consumption	所有权利归v	www.sinotextile.netfit
	Electricity-national grid	1.0249	kWh/kg
	Water-underground water	65.9436	kg/kg
Report No. ]	- Natural gas31	0.1170	kg/kg
ww.sinotext	Purchased steam (Pressure:0.4MPa, Temperature:160°C )	7.6036	MJ/kg
textile.net	Midea air conditioner (R32 refrigerating fluid)	SNT01679381 0.0000	kg/kg
-	Gree air conditioner (R410A refrigerating fluid)	e.net, any unauthorized distance.	kg/kg
	Packaging 所有权利归www.sinotextile.net所	有,任何 <del>未经历入8.20。</del>	Report No. S
-	PVC packing bag	0.0020 All right reserv	red by www.sindex.
	Waste generated	所有环码	UVVVV
-	Waste Finished Knitted Fabric (recycled)	0.0975	kg/kg
-	Rejected material-plastic (recycled)	0.0009	kg/kg
Report No. T	Rejected material-paper (recycled)	0.0004	kg/kg
ww.sinotext	Rejected material-fabric (recycled)	0.0002	kg/kg
textile.net	187 1-1	SNT01679381 65.9436d use is illegal.	kg/kg
	Transport of Raw Materials right reserved by www.sinotextile	e.net, any unauthorized 均属非法。	
	By truck 所有权利归www.sinotextile.netPf	211.6750	Report No. TS yed by wkmy.sinotextile yww.sinotextile.netFif

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Report No. TSNT01679381 Report No. 15N101073301

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# Table IV-3-4: Raw Data Collection- Manufacturing of Finished Mood Indigo Interlock Knitted Fabric

otextile.net	Manufacturing 1 kg of Finished Mood Indigo Interlock Knitted F	TSNT01679381 The net any unauthorized use is illegal.		
	Item 所有权利归www.sinotextie	Consumption	Unitport No.	SNT
	Material Consumption	All right reserv		le.ne 有,
	Semi-finished mood indigo interlock knitted fabric	1.0989	kg/kg	
	Sodium fatty alcohol polyoxyethylene ether sulfate	0.0110	kg/kg	
Report No.	Glacial acetic acidorized use is illegal.	0.0110	kg/kg	
ww.sinotextotextotextile.netf	Mercerizing softener (40% solid content)	NT01679381 0.0879	kg/kg	
J 10211	Wool softener Report No. Special	e.net, any unauthorized use is illegal.	kg/kg	
	Solubilised press agent 所有权利归www.sinotextile.netp	0.0220	kg/kgart No. T	SNT
	Polyester thread for sewing	0.0000 All right reserv	red by kg/kg sinotextil	le.n
	Energy & Resource Consumption	所有权利归义	www.sinotextne.nerr	13/
	Electricity-national grid	1.0247	kWh/kg	
	Water-underground water	65.9323	kg/kg	
Report No.	Natural gas 1	0.1170	kg/kg	
ww.sinotextotextotextile.netf	Purchased steam (Pressure:0.4MPa, Temperature:160°€)	7.6023	MJ/kg	
otextile.iled	Midea air conditioner (R32 refrigerating fluid) Report No. 75	NT01679381 0.0000 use is illegal.	kg/kg	
	Gree air conditioner (R410A refrigerating fluid)	e.net, any unado. 后 任何未经授权0.0001, 均属非法。	kg/kg	SNT
	Packaging 所有权利归www.sinotextile.neux	u i i annorii	Reporti	le.n
	PVC packing bag	0.0020 All right reserv	red by www.smotex www.sikg/kgtile.netFi	有,
	Waste generated			
	Waste Finished Knitted Fabric (recycled)	0.0973	kg/kg	
	Rejected material-plastic (recycled)	0.0009	kg/kg	
Report No. ww.sinotext	Rejected material-paper (recycled)	0.0004	kg/kg	
otextile.net	Rejected material-fabric (recycled)	0.0002	kg/kg	
	Waste water Report No. 1	net, any una 65.9323d use is illegal.	kg/kg	

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Report No. 15NIU16/9381

Report No. 15NIU Report No. TSNT01679381

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## Table IV-3-5: Raw Data Collection- Manufacturing of Finished Heather Rose Rib Knitted Fabric

ww.sinotextotextotextotextotextotextotextotex	ile.net, any unauthorized use is income. ile.net, any unauthorized use is income. Product Name: Finished Heather Rose Rib Knitted Fabric (95% R	WS Wool 5% Elastane 1*1 Rib 230g)	
jtextile	Report No.	TSN 101073350 tile.net, any unauthorized use is ilegal tile.net, any unauthorized 均属非法。	•
	Manufacturing 1 kg of Finished Heather Rose Rib Knitted Fabric	/T /=( == 2/4)  = ( = 1)   ( = 1)	BOg)
	Item	Consumption	Unity sinotex
	Material Consumption	所有权利归	www.sinotextile.net
	Semi-finished heather rose rib knitted fabric	1.0995	kg/kg
Report No.	Sodium fatty alcohol polyoxyethylene ether sulfate	0.0110	kg/kg
<sub>rw.sinotext</sub>	Glacial acetic acid,使用,均属非法。	0.0110	kg/kg
extile.net	Mercerizing softener (40% Solid content) Report No. 75	NT01679381 0.0880ed use is illegal.	kg/kg
	Wool softener All right reserved by www.sinotextile.net	e.net, dry 有,任何未经授权0.0440,均属非法。	kg/kg
	Solubilised press agent 所有权利归www.sinotexass	0.0220	kg/kg sinotextil
	Polyester thread for sewing	0.0000 All right reset	ved by www.sino.co. www.sikg/kgctile.net/fi
	Energy & Resource Consumption	LVI I-3 Iverse	
	Electricity-national grid	1.0253	kWh/kg
	Water-underground water	65.9686	kg/kg
eport No. w.sinotext	Natural gas nauthorized use is illegal.	0.1171	kg/kg
extile.net	Purchased steam (Pressure:0.4MPa, Temperature:160°€)	7.6065	MJ/kg
	Midea air conditioner (R32 refrigerating fluid) Report No. 13	e.net, any unau0.0000ed use is illegal.	kg/kg
	Gree air conditioner (R410A refrigerating fluid) notextile.net	<b>与,任何未经党</b> 0.0001	kg/kg <sub>ort</sub> No. T
	Packaging	All right reser	ved by www.sinotex
	PVC packing bag	0.0020 所有权利日	kg/kg
	Waste generated		
	Waste Finished Knitted Fabric (recycled)	0.0979	kg/kg
eport No.	Rejected material-plastic (recycled)	0.0009	kg/kg
w.sinotext	Rejected material-paper (recycled)	0.0004	kg/kg
extile.net	Rejected material-fabric (recycled)	NT01679381 0.0002	kg/kg
ļ	waste water	e.net, any una 65.9686, 均属非法。	kg/kg
	Transport of Raw Materials 所有权利归www.sinotextile.netpm	<b>月,江</b> 时不是3000	Report No. I
	By truck	211.6750 All right reser	ved by www.sineten

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Report No. TSNT01679381 Report No. 15N101079301

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# Table IV-3-6: Raw Data Collection- Manufacturing of Finished Mood Indigo Rib Knitted Fabric

Report No.	TSNT01679381		<u>,                                      </u>
<sub>VW.sinotex</sub> textile.net	Product Name: Finished Mood Indigo Rib Knitted Fabric (95% RWS	Wool 5% Elastane 1*1 Rib 230g NT01679381 NT01679381 use is il	
	Manufacturing 1 kg of Finished Mood Indigo Rib Knitted Fabric (95%)	net any unaution in the text	
	Item 所有权利归www.sinotextilla	Consumption	LIP to ort NO
	Material Consumption	consumption attriabt	recorved by www.sinotex
•	Semi-finished mood indigo rib knitted fabric	1.1000 所有 <sup>核</sup>	
-	Sodium fatty alcohol polyoxyethylene ether sulfate	0.0110	kg/kg
port No.	Glacial acetic acid orized use is illegal.	0.0110	kg/kg
w.sinotex	Mercerizing softener (40% Solid content)	0.0880	kg/kg
xtile.net	Deport No. ISN'I	016/9301	gal. kg/kg
-	and by www.sinotextile.ii	任何未经授权的使用,均属非法。 0.0220	kg/kg
-	Polyester thread for sewing	0.0000	ka/ka sinotext
-	Energy & Resource Consumption		reserved by \$6/18.5inotext 又利归www.sinotextile.neti
•	Electricity-national grid	1.0258	kWh/kg
-	Water-underground water	66.0000	kg/kg
-	Natural gas 81	0.1172	kg/kg
port No. w.sinotex	Purchased steam (Pressure:0.4MPa, Temperature:160°C)	7.6101	MJ/kg
xtile.net	Midea air conditioner (R32 refrigerating fluid)	0.0000	kg/kg
•	Gree air conditioner (R410A refrigerating fluid) Report No.   SNI	ot. any una 0.0001ed use is illegated	kg/kg
•	Packaging All right reserved by www.sindtextile.net所有,	任何未经授权的使用,均属非公。	Report No. 1
•	PVC packing bag	0.0020 All right	and by haven, sinotext
•	Waste generated	所有机	又利归www.sinotextne.new
•	Waste Finished Knitted Fabric (recycled)	0.0984	kg/kg
	Rejected material-plastic (recycled)	0.0009	kg/kg
	Rejected material-paper (recycled)	0.0004	kg/kg
Report No.	Rejected material-fabric (recycled)	0.0002	kg/kg
xtile.net	Waste water	01679381 66.0000	kg/kg
	Transport of Raw Materials Report No. 15N	et, any unauthorized use is illeget, any unauthorized use is illeget, but the 均属非法。	gair
	By truck All right reserved by www.sinotextile.net ff有,	任何未经授权的资本	km port No. Treserved by www.sinotext

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Tables from IV-4-1 to IV-4-3 show the LCI results of all relative raw data collection of manufacturing of 6 types of

Report No. TSNT01679381
y www.sinotextiTable iV-4-1: Raw Data Collection— Manufacturing of Wool Jacquard Knitted Top-Heather Rose/Mood Indigo (Order#PO-00001340)79381 (Qingdao Sino Textile Technique Co., Ltd)使用,均属非法。

	Product Name: Wool Jacquard Knitted Top-Heather Rose/Moo	d Indigo (Order#PO-00001340)	Report No. TS right reserved by www.sinotektilo 所有权利归www.sinotextile.net所有	
. 110	Declared Unit: Manufacturing One Piece of Wool Jacquard Knitted Top-Heather Rose/Mood Indigo			
port No w.sinotes	tiltemet, any unauthorized use is the gain.	Consumption	Unit	
extile.net	Material Consumption	TSNT01679381	is illegal.	
	Finished Jacquard Knitted Fabric	tile.net, any unauthornation 红何夫经授0.0659月,均属	非法。 kg/piece	
	Finished Interlock Knitted Fabric所有权利归www.sinotextile.net	0.0600	kg/pieceort No. TS	
	Dry cleaning agent	0.0190 <sub>All</sub>	right reserved by piece tile net fit	
	Lubricating oil	0.0060	所有权利归www.siniece	
	Care label	0.7045	g/piece	
	Satin loop	0.0283	g/piece	
ort No	Polyester core spun thread se is illegal.	0.6279	g/piece	
(sinote)	Polyester thread 的使用,均属非法。	1.1664	g/piece	
xtile.ne	Nylon thread Report No.		is illegal. g/piece	
	String All right reserved by www.sinotex	tile.net, any unautilonatilonatilonatilonatilonatilonatilonation in the state of t	非法。 g/piece	
	Energy & Resource Consumption后有权利归www.sinotextile.net	12197	Report 11	
	Electricity	0.8414 All	right reserved by kWh/kgtile.netfin	
	Tap water	0.1768	kg/piece	
	Gree air conditioner (R32 refrigerating fluid)	1.0929	g/piece	
	Packaging			
ort No	Plastic film 381	0.0048	g/piece	
.sinote: ktile.net	GRS polybag 授权的使用,均属非法。	0.5209	g/piece	
K(lie.iic	Carton Report No.	TSNT0167938112.8236 use	is illegal g/piece	
	Price sticker  All right reserved by www.sinotex	tile.net, any unadtromation 能有 任何未经授 <b>0.4547</b> 月,均属	非法。 g/piece TS	
	FSC rice sticker 所有权利归www.sinotextile.net	0.2730	g/piece	
	Transparent adhesive tape	0.1071 All	right reserved by www.smeeting.net.fif	
	Waste Generated		Missississi	
	Waste paper	0.0022	kg/piece	
ort No	Plastic Waste bag norized use is illegal.	0.0001	kg/piece	
sinote: ktile.net	。Waste cloth经授权的使用,均属非法。	0.0138	kg/piece	
V CII CIII C	Transport of Raw Materials and Final Product Report No.	TSNT01679381	is illegal.	
	By truck All right reserved by www.sinotex	航有 任何未经授5.8250,均属	km	

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Report No. TSNTU16/9381 Report No. TSNT01679381

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Table IV-4-2: Raw Data Collection- Manufacturing of Wool Jacquard Knitted Body -Heather Rose/Mood Indigo

TSNT01679381 Product Name: Wool Jacquard Knitted Body -Heather Rose/Mo	od Indigo (Order#PO-00001334)	
Report No.	o. TSNT01679381	legal.
Declared Unit: Manufacturing One Piece of Wool Jacquard Knitt	ted Body -Heather Rose/Mood Indig	o Report N
Item	Consumption	armed by Unitw.sinot
Material Consumption	所有机	又利归www.sinotextile.n
Finished Jacquard Knitted Fabric	0.0604	kg/piece
Finished Interlock Knitted Fabric legal.	0.0370	kg/piece
Finished Rib Knitted Fabric	0.0119	kg/piece
Dry cleaning agent Report No.	TSNT01679381	gal g/piece
Lubricating oil All right reserved by www.sinotextile.net	听有,任何未经授权的证明,因属非经	g/piece
560D Spandex	0.1585	g/piece sinot
Care label	0.8370 All right 所有料	Telerved by the certile.n
Satin loop	0.0238	g/piece
Woven tape	0.6342	g/piece
15L YKK popper	3.3158	g/piece
Polyester core spun thread	0.9568	g/piece
Polyester thread	0.8208	g/piece
Nylon thread Report No.	ile.net, any una 11338 均属非法。	g/piece
String All right reserved by www.sinotextile.net	所有,任何未经过 <del>0</del> 2.3804	g/piece ort N
Energy & Resource Consumption  All right reserved by www.sinotextile.net		
Electricity	0.8058 所有机	
Tap water	0.1431	kg/piece
Gree air conditioner (R32 refrigerating fluid)	0.8849	g/piece
Packaging 9381 Packaging 9381 Packaging 9381		
Plastic film 经授权的使用,均属非法。	0.0039	g/piece
GRS polybag Report No.	TSNT01679381 0.4182	
Contain significant control of the c	ile.net, any unauthorn 均屋非法。	g/piece
Price sticker 所有权利归www.sinotextile.net	0.4547	g/piece
FSC price sticker	0.2730 All right	reserved by www.tile.n
Transparent adhesive tape	0.0859	g/piece
Waste Generated		
Waste paper nauthorized use is illegal.	0.0018	kg/piece
Plastic Waste bag	0.0001	kg/piece
Waste cloth Report No.	TSNT01679381 tile net, any una <b>0.0112</b> zed use is ille	gail kg/piece
Transport of Raw Materials and Final Product by www.smotextile.net	听有,任何未经授权的使用, 玛恩里尔	- 4 M
By truck	88.1912	reserved by km/w.sinot 又利归www.sinotextile.n

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### Table IV-4-3: Raw Data Collection- Manufacturing of Wool Jacquard Knitted Longjohn -Heather Rose/Mood Indigo (Order#PO-00001384) (Qingdao Sino Textile Technique Co.,Ltd)

, No.	Cunguao Sino Textile	e Technique Co.,Ltd)		1
Report No. www.sinotex notextile.net	Product Name: Wool Jacquard Knitted Longjohn -Heather Rose	2/Mood Indigo (Order#PO-00001384)		
1000	Report No. TSNT01679381  Report No. TSNT01679381			
	Declared Unit: Manufacturing One Piece of Wool Jacquard Knit		Downert NO.	TSNT
	Item	Consumption	rved by Wildy.sinotex	tile.ne
	Material Consumption	所有权利归	rved by Willy.siliotes ]www.sinotextile.net	η in .
	Finished Jacquard Knitted Fabric	0.0875	kg/piece	
Report No.	Finished Interlock Knitted Fabric legal.	0.0111	kg/piece	
www.sinotext	Dry cleaning agent使用,均属非法。	0.0150	g/piece	
notextile.net	Lubricating oil Report No.	TSNT01679381 0.0048ed use is illegal.	g/piece	
	Care label All right reserved by www.sinotex	所有,任何未经授 <b>何.8370</b> ,均属非法。	g/piece	TSNT
	Satin loop 所有权利归www.sinotextue.uex	0.0283	g/piece	tile.ne
	Elastic tape	3.3830 All right rest	rved by www. www.g/piecetile.net	所有,'
	Polyester core spun thread	0.4784	g/piece	
	Polyester thread	0.9720	g/piece	
Ī	Nylon thread	1.7479	g/piece	
Report No.	TSNT01679381 String, any unauthorized use is illegal.	2.3804	g/piece	
www.sinotext				
10-1-	Electricity Report No.	TSNT01679381 ile.net, any una1t0063 ed use is illegal.	kWh/kg	
Ī	Tap water All right reserved by www.sinotextile.net	所有,任何未经授权的使用,均属非法。	kg/piece <sub>art</sub> No.	TSNT
Ī	Gree air conditioner (R32 refrigerating fluid)		rved bg/piecesinotex	tile.ne 祈有
Ī	Packaging 所有权利归www.sinotextila.net			n to
	Plastic film	0.0038	g/piece	
ļ	GRS polybag	0.4194	g/piece	
: No	Carton 679381	10.3249	g/piece	
Report No. www.sinotext	t Price sticker 姆权的使用,均属非法。	0.4547	g/piece	
notextile.net	FSC price sticker	TSNT01679381 0.2730	g/piece	
ļ	Transparent adhesive tape  Report No.  Report No.  Report No.	I SIN IU III III	g/piece	1
	Waste Generated  All right reserved by www.sinotextile.net	亦有,任何未经投权的农用,————————————————————————————————————	Report No.	TSNT
	Waste paper	0.0017 All right rese	rved by www.sinotex kg/piece.ile.net	file.iii 所有,
-	Plastic Waste bag	0.0001	kg/piece	
<u> </u>	Waste cloth	0.0110	kg/piece	
Report No.	Transport of Raw Materials and Final Product	0.0123	1.8/ P1222	
www.sinotext notextile.neti	By truck 未经授权的使用,均属非法。	77.8964	km	1

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### 4.2 Electricity

Report No. TSNT01679381

y www.sinotextile.netprocess is shown in the table below:

ble IV-5 Report No. TSNT01679381

	Table IV-5: Electricity Consumption	FI, LUBSTERS		
	所有权利归加强的。 Item	Consumption	Repo	rt No. TSNT0167 inotextile.net, ar
-	Scoured wool-national grid	0.3185又利力	www.hykg	ile.net所有,任何
-	Scoured wool- self-produced photovoltaic power	0.2640	kWh/kg	
Report No.	Greige wool sliver (finer than 70s)- national grid	0.9213	kWh/kg	
www.sinotex	Shrinkproof greige wool sliver (finer than 70s)- national grid	0.6424	kWh/kg	
inotextile.net	Treating of wastewater (zhejiang new chuwa wool co., ltd)- national grid 9381	d us 0:0082gal.	kWh/kg	
-	Shrinkproof light coloured wool sliver (finer than 70s) - national grid 中间,经过仅约使用。	0.6088	kWh/kg	_
	Shrinkproof light coloured wool sliver (finer than 70s) - self-produced photovoltaic power	0.1564	kWh/kg	rt No. TSNT0167 inotextile.net, ar ile.net所有,任何
=	Shrinkproof dark coloured wool sliver (finer than 70s) - national grid	0.7460又利力	kWh/kg	lle.neth/h/
	Shrinkproof dark coloured wool sliver (finer than 70s) - self-produced photovoltaic power	0.1919	kWh/kg	
	Treating of wastewater (zhejiang houyuan textiles inc.) - national grid	0.0015	kWh/kg	
Report No.	Treating of wastewater (zhejiang houyuan textiles inc.) - self-produced photovoltaic power	0.0004	kWh/kg	
inotextile.net	Treating of reclaimed water (zhejiang houyuan textiles inc.) - national grid 381	d us 0.0012gal.	kWh/kg	
	Treating of reclaimed water (zhejiang houyuan textiles inc.) extile.net, any unauthous self-produced photovoltaic power self-produced produced photovoltaic power self-produced produced photovoltaic power self-produced photovoltaic photovoltai	均属非法。 0.0003	kWh/kg Repo	rt No. TSNT0167
-	Light/dark coloured wool yarn (1/74nm) - national grid	A7.9414 rese	rve <b>kWh/kg<sup>W-S</sup></b>	inotextile.net, ar
•	Light/dark coloured wool yarn (1/74nm) - self-produced photovoltaic power	0.6659	kWh/kg	ile.iio 477110
•	Semi-finished heather rose /mood indigo jacquard knitted fabric - national grid	2.6544	kWh/kg	
•	Semi-finished heather rose /mood indigo interlock knitted fabric - national grid	0.7964	kWh/kg	
	Semi-finished heather rose /mood indigo rib knitted fabric - national grid	0.7964	kWh/kg	
Report No. www.sinotex	Finished heather rose jacquard knitted fabric - national grid	1.0248	kWh/kg	
notextile.net	Finished mood indigo jacquard knitted fabric- national grid	1.0247	kWh/kg	
-	Finished heather rose interlock knitted fabric- national grid No. 15N10167938	d us 1.0249 gal.	kWh/kg	
-	Finished mood indigo interlock knitted fabric- national grid net所有,任何未经授权的使用。	1.0247	kWh/kg	rt No. TSNT0167
-	Finished heather rose rib knitted fabric- national grid	1.0253	kWh/kgw.s	inotextile.net, ar
-	Finished mood indigo rib knitted fabric- national grid	1.0258又利力	wvkWh/kg <sup>ext</sup>	ile.net所有,任何
-	Heather rose / mood indigo wool jacquard top(order#po-00001340) - national grid	0.8414	kWh/piece	
Report No.	Heather rose / mood indigo wool jacquard body (order#po-00001334) - national grid	0.8058	kWh/piece	
www.sinotex notextile.net	Heather rose / mood indigo wool jacquard longjohn - (order#po-00001384) - national grid	1.0063	kWh/piece	

Report No. 13N1010/9581

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Report No. TSNT01679381 Report No. 13N1010/9301



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### 4.3 Secondary Data

eport No. TSI The Secondary data used are summarized in **Table IV-6** as below: w.sinotextile.net, any company data used are summarized in **Table IV-6** as below: extile.net所有,任何未经授权的使用,均属

Table IV-6: Secondary Data And Source rized use is illegal.

所有权力Data Name	Data Source et No. TSN
CN: Process steam from hard coal 85% sphera	LCA for Experts 10.7.1.28 (GaBi)
CN: Electricity grid mix sphera	LCA for Experts 10.7.1.28 (GaBi)
CN: Natural gas mix sphera	LCA for Experts 10.7.1.28 (GaBi)
GLO: Copper (99.99%; cathode) ICA	LCA for Experts 10.7.1.28 (GaBi)
CN: Electricity grid mix sphera	LCA for Experts 10.7.1.28 (GaBi)
CN: Tap water from surface water sphera Report No. 15M to 15M unauthorized u	LCA for Experts 10.7.1.28 (GaBi)
CN: Electricity from photovoltaic sphera single net所有,任何未经授权的证书,	LCA for Experts 10.7.1.28 (GaBi)
CN: Process steam from hard coal 85% sphera	LCA for Experts 10.7.1.28 (GaBi)
CN: Heavy fuel oil at refinery (1.0 wt.% S) sphera	LCA for Experts 10.7.1.28 (GaBi)
CN: Diesel mix at filling station (100% fossil) sphera	LCA for Experts 10.7.1.28 (GaBi)
DE: Hazardous Waste in Waste incineration plant sphera <p-agg></p-agg>	LCA for Experts 10.7.1.28 (GaBi)
DE: Hazardous Waste in Waste incineration plant sphera <p-agg></p-agg>	LCA for Experts 10.7.1.28 (GaBi)
GLO: Antistatic agent (quaternary ammonium compound) sphera	LCA for Experts 10.7.1.28 (GaBi)
RER: Polyethylene film (PE-LD) plasticseurope	LCA for Experts 10.7.1.28 (GaBi)
GLO: Softener (fatty acids amino compounds) sphera t No. TSNT01679381	111
EU-28: Sulphuric acid (96%) sphera served by www.sinotextile.net, any thind the time.	LCA for Experts 10.7.1.28 (GaBi)
EU-28: Sodium hypochlorite (NaOCl, 175 g Cl <sub>2</sub> /l) plasticseurope	LCA for Experts 10.7.1.28 (GaBi)
CN: Wax / Paraffins at refinery sphera	LCA for Experts 10.7.1.28 (GaBi)
GLO: Reactive dyes sphera	LCA for Experts 10.7.1.28 (GaBi)
GLO: Non-ionic surfactant (fatty acid derivate) sphera	LCA for Experts 10.7.1.28 (GaBi)
GLO: Equalizing agent (on basis alcohol ethoxylate) sphera	LCA for Experts 10.7.1.28 (GaBi)
GLO: Soaping agent (acrylic polymer) sphera	LCA for Experts 10.7.1.28 (GaBi)
DE: Sodium hydrovide (caustic soda) mix (100%) sphera	LCA for Experts 10.7.1.28 (GaBi)
GLO: Detergent (fatty acid sulphonate derivate) sphera	LCA for Experts 10.7.1.28 (GaBi)
CH: Epoxy Resin (EP) sphera	LCA for Experts 10.7.1.28 (GaBi)
GLO: Palm kernel oil methylester (incl. LUC, incl. peat emissions, 75 cm) erasm	LCA for Experts 10.7.1.28 (GaBi)
GLO: Equalizing agent (on basis fatty amines and ethoxylates) sphera	LCA for Experts 10.7.1.28 (GaBi)
AUS: Greasy wool, PPhilippa M. Brock, Phillip Graham, Patrick Madden and Douglas J.	所有权利知
Alcock (Greenhouse gas emissions profile for 1 kg of wool produced in the Yass	Literature
Region, New South Wales: A	
le meral oypropyrene milat ryplasticseurope	LCA for Experts 10.7.1.28 (GaBi)
EU-28: Kraftliner 2018; by-products: tall oil, turpentine; substitution EoL; [mass allocation] sphera/FEFCO <p-agg> Report No. TSNT01679381</p-agg>	LCA for Experts 10.7.1.28 (GaBi)
US: Corrugated product sphera/AF&PA <p-agg>www.sinotextile.net, any specific product sphera/AF&amp;PA <p-agg>www.sinotextile.net所有,任何未经授权的使用,均所有权利归www.sinotextile.net所有,任何未经授权的使用,均</p-agg></p-agg>	LCA for Experts 10.7.1.28 (GaBi)

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	Data Name	Data Source	
	GLO: Truck, Euro 3, 7.5 t - 12t gross weight / 5t payload capacity sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	
ort No. TSN	GLO: Truck, Euro 3, up to 7.5t gross weight / 2.7t payload capacity sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	
sinotextile. tile.net所有	GLO: Truck, Euro 3, 12 - 14t gross weight / 9.3t payload capacity sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	
(IIIC.IIIC	GLO: Truck, Euro 3, 14 - 20t gross weight / 11.4t payload capacity sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	
	GLO: Truck, Euro 3, 20 - 26t gross weight / 17.3t payload capacity sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	T0167
	GLO: Truck, Euro 3, 26 - 28t gross weight / 18.4t payload capacity sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	net, an
	GLO: Truck, Euro 3, 28 - 32t gross weight / 22t payload capacity sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	任何
	GLO: Truck, Euro 3, more than 32t gross weight / 24.7t payload capacity sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	
-61	GLO: Container ship, 5,000 to 200,000 dwt payload capacity, ocean going sphera <u-so></u-so>	LCA for Experts 10.7.1.28 (GaBi)	
ort No. TSN sinotextile.	Nylon 6 {RoW}  market for nylon 6   Cut-off, U	ecoinvent 3.9	
ile.net所有	Nylon 6-6 {RoW}  market for nylon 6-6   Cut-off, U	s illegal. ecoinvent 3.9	
	Polyaluminium chloride {GLO}  market for polyaluminium chloride   Cut-off, U	法。 ecoinvent 3.9	
	Polyacrylamide {GLO}  market for polyacrylamide   Cut-off, U		T0167
	Acetic acid, without water, in 98% solution state {GLO}  market for acetic acid, without	I became sinotextile.n	net, ar 任何
	water, in 98% solution state   Cut-off, U	right reserecoinvent 3.9;ile.net所有, 新有权利归www.sinotextile.net所有,	1±1円
	Butyl acrylate {RoW}  market for butyl acrylate   Cut-off, U	ecoinvent 3.9	
	Oxalic acid {GLO}  market for oxalic acid   Cut-off, U	ecoinvent 3.9	
	Fibre, polyester {GLO}  market for fibre, polyester   Cut-off, U	ecoinvent 3.9	
rt No. TSN	Glycerine {RER}  market for glycerine   Cut-off, U	ecoinvent 3.9	
inotextile. ile.net所有	Tetrachloroethylene {RoW}  market for tetrachloroethylene   Cut-off, U	ecoinvent 3.9	
	Polyacrylamide {GLO}  market for polyacrylamide   Cut-off, UNT01679381	s illegal. ecoinvent 3.9	
	Sodium pyrophosphate {GLO}  market for sodium pyrophosphate   Cut-off, U	ecoinvent 3.9	T0167
	Textile, nonwoven polypropylene {GLO}  market for textile, nonwoven polypropylene   Cut-off, U		net, ar 任何
	Polypropylene, granulate {GLO}  market for polypropylene, granulate   Cut-off, U	ecoinvent 3.9	
	Polyethylene, low density, granulate {GLO}  market for polyethylene, low density, granulate   Cut-off, U	ecoinvent 3.9	
. N. TCN	Aluminium chloride {GLO}   market for aluminium chloride   Cut-off, U	ecoinvent 3.9	
ort No. TSN sinotextile.	Citric acid {GLO}  market for citric acid   Cut-off, U	ecoinvent 3.9	
tile.net所有	Neutralising agent, sodium hydroxide-equivalent {GLO}  market for neutralising agent, sodium hydroxide-equivalent   Cut-off, U	s illegal. ecoinvent 3.9	
	Calcium carbonate, precipitated {RoW}  market for calcium carbonate, precipitated   Cut-off, U	Report No. 151	T0167 net, ar
	Potato starch {GLO}  market for potato starch   Cut-off, U	right reserecoinvent 3.9 ile.net所有。	任何
	Maize starch {GLO}  textile production, woven cotton   Cut-off, U	ecoinvent 3.9	
	Textile, nonwoven polyester {GLO}  market for textile, nonwoven polyester   Cut-off, U	ecoinvent 3.9	
ort No. TSN	Cellulose fibre {RoW}  market for cellulose fibre   Cut-off, U	ecoinvent 3.9	
sinotextile. tile.net所有	Acrylic binder, with water, in 54% solution state {RoW}  market for acrylic binder, with water, in 54% solution state   Cut-off, U	ecoinvent 3.9	
	Others Report No. 15N101075551	Literature	

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#### 5. RESULTS

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Biogenic Climate Change

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The fossil and biogenic climate change of 6 types of knitted garments are reported separately, results detailed by NT0167938 All right reserved by www.sinotextile.net, any un phase are as follows: Bwww.sinotextile.net所有,任何未经抗

Table V-1-1: Fossil And Biogenic Climate Change of One Piece of Wool Jacquard Knitted Top- Heather Rose (Order#PO-0001340)

		(Order#	‡PO-00001340)		
t No. TS NT01679381 notextile Phase Contribution 均属 e.net所程,任何未经授权的证用,均属	is illega . 非法。	Climate Change, Fossil (kg CO <sub>2</sub> e)	Climate Change, Biogenic (kg CO <sub>2</sub> e)	Total (kg CO₂e)	Percentage Share (%)
[1] Raw materials		8.8994eport No	o. TSNT016/938 1 0.1362 <sub>mauthor</sub>	ized us 9.0356 al.	97.83%
[2] Product manufacturing	g <sub>II right re</sub>	eserved 0.1878 W. sinote	t所有,(0.0000 授权的使	0.1878	2.03%
[3] Packaging	所有权利	0.0092	0.0000	0.0092	Re 0.10% extile ne
[4] Transportation		0.0034	0.0001	Alo.0035 reserved	w.sinote0.04%et所有,
Total		9.0998	0.1363	9.2361	100.0%

Table V-1-2: Fossil And Biogenic Climate Change of One Piece of Wool Jacquard Knitted Top- Mood Indigo (Order#PO-00001340) . ...d use is illegal.

o. TSNT01679381	jal. (Order#	#PO-00001340)		
extile net, any unauthorized use the permit plant pla	Climate Change, Fossil (kg CO₂e)	Climate Change, Biogenic (kg CO₂e)	Total (kg CO₂e)	Percentage Share (%)
[1] Raw materials	9.0803 sinote	extile.ne <b>0.1411</b> Inauthor	11zed use 15 11cg	97.87%
[2] Product manufacturing right	t reserved by www. 10.1878extile.ne	t所有, 6.0000	0.1878	Re1.99% o. TSNT
[3] Packaging	0.0092	0.0000	AIO.0092reserved	by www.0.10% et所有,
[4] Transportation	0.0034	0.0001	0.0035 <sup>大利用WW</sup>	0.04%
Total	9.2807	0.1412	9.4219	100.0%

Table V-1-3: Fossil And Biogenic Climate Change of One Piece of Wool Jacquard Knitted Body -Heather Rose y unauthorized use is illegal. (Order#PO-00001334)

NT01679381 1-3. Tossil Alid Blog net, any unauthorized use is illegated any unauthorized use is illegated.	(Order#	‡PO-00001334)		
午何未经授权的使用,均属4F/A。 Phase Contribution	Climate Change, Fossil (kg CO <sub>2</sub> e)	Climate Change, Biogenic (kg CO₂e)	Total ized u.(kg:CO2e)	Percentage Share (%)
[1] Raw materials	reserved 7:7503 w.sinote	xtile.net. any xtile.net. any 4所有 (0.1184 授权的使	7.8687	92.30%
[2] Product manufacturing 所有	利归www.sinotextile.iic	-0.0002	0.6443	7.56% extile.n
[3] Packaging	0.0074	0.0000	Alo.0074 reserved	w.sinote0.09%et所有,
[4] Transportation	0.0043	0.0002	0.0045	0.05%
Total	8.4065	0.1184	8.5249	100.0%

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[[No. 15N10793]

[[No. 15N10793] 而有权利 Number: TSNT01679381 Total Quality. Assured.

## Table V-1-4: Fossil And Biogenic Climate Change of One Piece of Wool Jacquard Knitted Body - Mood Indigo (Order#PO-00001334)

	1701679381	(Order	#PO-00001334)		
port No. 15N w.sinotextile. extile.net所有	iT01679381 net any unauthorized use is illegal. net any unauthorized use is illegal. net any unauthorized use is illegal. , 任何来至如tribution 均属非法。	Climate Change, Fossil (kg CO₂e)	Climate Change, Biogenic (kg CO₂e)	Total (kg CO₂e)	Percentage Share (%)
	[1] Raw materials	7.9001 Report	textile.no.1224 unauth	声用 均8.0225	92.44%
	[2] Product manufacturing [2]	reserved by the restile.i	et所有,————————————————————————————————————	0.6443	7.42% TSNT0
	[3] Packaging	0.0074	0.0000	0.0074	by www0.09% xtile.net
	[4] Transportation	0.0043	0.0002	0.0045≢JJ∃ww	w.sinote%10.05%
	Total	8.5563	0.1224	8.6787	100.0%

#### eport No. TSNT01679381 eport No. 13. 15. Table V-1-5. Fossil And Biogenic Climate Change of One Piece of Wool Jacquard Knitted Longjohn -Heather Rose extile.net所有,任何未经 (Order#PO-00001384)

Phase Contribution	Climate Change,	#PO-00001384) Climate Change,	ed use is illegal. 1. 均属非 <b>To</b> tal	Percentage Share	
All right	Fossil (kg CO₂e)	Biogenic (kg CO₂e)	(kg CO₂e)	(%) TSNT	
[1] Raw materials	7.0765	0.1079	7.1844	by www98.95%xtile.ne	
[2] Product manufacturing	0.0651	-0.0002	0.0649 J.J.ww	w.sinote的.89%	
[3] Packaging	0.0074	0.0000	0.0074	0.10%	
[4] Transportation	0.0039	0.0002	0.0041	0.06%	
Total 1701679381 Total net, any unauthorized use is illeg	7.1529	0.1079	7.2608	100.0%	

#### M.SinoteAttion (Table V-1-6: Fossil And Biogenic Climate Change of One Piece of Wool Jacquard Knitted Longjohn- Mood Indigo (Order#PO-00001384)

(Order#PO-00001384) stherized use is illegal.					
Phase Contribution All right re 所有权	Climate Change, telling Fossil (kg CO2e)	Climate Change, Biogenic (kg CO <sub>2</sub> e)	Total (kg CO <sub>2</sub> e)	Percentage Share Repo(%)No. TSNTO	167938 ;, any ur £何未经持
[1] Raw materials	7.1100	0.1088	All 7i2188eserved	by www.sinotext w sinote98.95%t所有,	E何未经护
[2] Product manufacturing	0.0651	-0.0002	0.0649	0.89%	
[3] Packaging	0.0074	0.0000	0.0074	0.10%	
[4] Transportation	0.0039	0.0002	0.0041	0.06%	
Total	7.1864	0.1088	7.2952	100.0%	

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vw.sinotextile.net, any unauthorized use is illegal. Climate change from dLUC of 6 types of wool jacquard knitted top/body/longjohn are reported as below: t No. TSNT0167938 Il right reserved by www.sinotextile.net, any un

Table V-2-1 Climate Change of One Piece of Wool Jacquard Knitted Top-Heather Rose (Order DO 2000 200) (Order#PO-00001340) from dLUC

	(Order#PO-00001340) Iroin aloc		•
Phase Contribution	Climate Change, dLUC (kg CO₂e)	Percentage Share (%)	
[1] Raw materials se is illegal.	0.0691	99.86%	
[2] Product manufacturing	0.0001	0.14%	
[3] Packaging	Nop - 0.0000 any linautiloi-	ed use is illegal 0.00%	
[4] Transportation All right reserved	by www.sinotexthe.net 9,0000任何未经授权的使用	0.0070	TSNT01679
Total 所有权利归WW	0.0692	100 00/	ctile net. any
		All right reserved by www.sinote. 所有权利归www.sinotextile.ne	t所有,任何不

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Total Quality. Assured.

Total

#### Table V-2-2 Climate Change of One Piece of Wool Jacquard Knitted Top- Mood Indigo (Order#PO-00001340)from dLUC

eport No. TSNT016 **Phase Contribution** Climate Change, dLUC (kg CO2e) Percentage Share (%) . w.sinotextile.net, a [1] Raw materials 0.0700 99.86% extile.net所有,任何 any unauthor [2] Product manufacturing 0.0001 0.14% [3] Packaging extile.ne0.0000仕 0.00% [4] Transportation 0.0000 0.00% 100.0%sinotextile.net所有,任何未经抗

> Table V-2-3 Climate Change of One Piece of Wool Jacquard Knitted Body - Heather Rose (Order#PO-00001334) from dLUC

0.0701

679381 any unauthorized use is illegal. Phase Contribution	Climate Change, dLUC (kg CO₂e)	Percentage Share (%)
[1] Raw materials	Report No. 15 No. 1619301	d use is illegal. 如是は注 99.34%
[2] Product manufacturing reserved	ny www.smotextile.net的0.0004何未经授权的使用,	0.66%
[3] Packaging 斯自权利为	0.0000	0.00%
[4] Transportation	0.0000	All right reserved by
Total	0.0604	100.0%

#### Table V-2-4 Climate Change of One Piece of Wool Jacquard Knitted Body - Mood Indigo rized use is illegal. (Order#PO-00001334) from dLUC

port No. TSNT01679381	(Order#PO-00001334) from dLUC	
//.sinotextile.net, at Phase Contribution 法	Climate Change, dLUC (kg CO₂e)	Percentage Share (%)
[1] Raw materials	Report No. 10,0608 679381	d use is illegal. 99.35%
[2] Product manufacturing	ed by www.sinotextio-0004 any unaution	均属非法。 0.65%
[3] Packaging 所有权利归w	www.sinotextile.netpma	0.00% Report No.
[4] Transportation	0.0000	All right resentions by www.sinotext
Total	0.0612	100.0%

#### Table V-2-5 Climate Change of One Piece of Wool Jacquard Knitted Longjohn - Heather Rose (Order#PO-00001384) from dLUC

rt No. TSNT01679381	(Order#PO-00001384) from dLUC	
notextile.net, a Phase Contribution	Climate Change, dLUC (kg CO₂e)	Percentage Share (%)
net所有,任何 [1] Raw materials	0.0544	99.09%
[2] Product manufacturing	Report No. TSN101675361	d use is illegal. 6.91%
[3] Packaging All right reserved	by www.smotextile.py www.smotextile.net所 0.0000 何未经授权的使用	0.00%
[4] Transportation 所有权利是www	0.0000	0.00%y www.sinotext
Total	0.0549	所有权利 100.0% sinotextile.neth

#### Table V-2-6 Climate Change of One Piece of Wool Jacquard Knitted Longjohn - Mood Indigo (Order#PO-00001384) from dLUC

t No. TSNT016	79381  That is a second of the	e of One Piece of Wool Jacquard Knitt (Order#PO-00001384) from dLUC	ca congjoini Wood maigo
- ataytile.net. a	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Climate Change, dLUC (kg CO2e)	Percentage Share (%)
16.1104/110	[1] Raw materials	Report No. 76.0546 679381	d use is illegal. 99.09%
	[2] Product manufacturing reserved	DV *****	均属非法。 0.91%
	[3] Packaging 所有权利归www	0.0000	0.00%
	[4] Transportation	0.0000	All right reserved by www.sinotext
	Total	0.0551	100.0%

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5.3 Climate Change from Aircraft

eport No. 13 Climate change from aircraft of 6 types of wool jacquard knitted top/body/longjohn are reported as below: extile.net所有,任何未 No. TSNT01679381

Table V-3-1: Climate Change of One Piece of Wool Jacquard Knitted Top- Heather Rose All right res (Order#PO-00001340) From Air

Phase Contribution	Climate Change, Aircraft (kg CO <sub>2</sub> e)	Report No. TSNT010 Report No. TSNT010 All right Percentage Share (%) textile.net, 在
[1] Raw materials	0.0000E+00	0.00%
[2] Product manufacturing	5.2259E-08	99.96%
[3] Packaging thorized use is illegui.	5.0822E-12	0.01%
[4] Transportation	1.4160E-11381	0.03%
Total	Report No. 15.2278E-08 unauthorize	均属非法。 100.0%

Table V-3-2: Climate Change of One Piece of Wool Jacquard Knitted Top-Mood Indigo www.sinotextile.net, any un (Order#PO-00001340) From Aircraft

又利归www.sinotextile.net所有,任何未经抗 Climate Change, Aircraft **Phase Contribution** Percentage Share (%) (kg CO<sub>2</sub>e) [1] Raw materials 0.0000E+00 0.00% [2] Product manufacturing is illegal 5.2259E-08 99.96% [3] Packaging 5.0822E-12 0.01% use is illegal 1.4160E-11 0.03% [4] Transportation www.sinote 5.2278E-08 4 授权的使用。 All right reserved by 100.0% Total by www.sinotextile.net, any un

Table V-3-3: Climate Change of One Piece of Wool Jacquard Knitted Body- Heather Rose otextile.net所有,任何未经的 (Order#PO-00001334) From Aircraft

	(0	rder#PO-00001334) From Aircraft			_
	Phase Contribution	Climate Change, Aircraft (kg CO₂e)	Perce	entage Share (%)	
ort No. TS	[1] Raw materials	0.0000E+00		0.00%	
inotextile	[2] Product manufacturing	1.8015E-07		99.99%	
ile.net所有	[3] Packaging	4.1293E-12381	uso is illegal.	0.00%	
	[4] Transportation	www.sinotext1.7706E-11 unauthorized	均属非法。	0.01%	
	Total All right reserved b	inotextile.net 1.8018E-07		100.0%Report No. TSN	1016
	7.1. 1/2.4.0!: 1.0!	of One Disea of Most Jacquard Knith	- u tulat rocor	ved by www.smotextile.	

Table V-3-4: Climate Change of One Piece of Wool Jacquard Knitted Body - Mood Indigo (Order#PO-00001334) From Aircraft

	(0	order#PO-00001334) From Aircraft		
port No. T	SNT01679381 <mark>Phase Contribution</mark> egal. le.net, any unauthobies	Climate Change, Aircraft (kg CO <sub>2</sub> e)	Percentage Share (%)	
xtile.netF	[1] Raw materials	0.0000E+00	0.00%	
	[2] Product manufacturing	-in ataytime net will will be a	use is illegal. 约尾非法。  99.99%	
	[3] Packaging All right reserved to	sinotextile.ne 4.1293E-12 <sup>卡</sup> 经授权的使用,	0.00% Report No. TSN	T01679
	[4] Transportation	1.7706E-11	ou sight reserve 0.01% www.sinotextile.	net, any 任何未约
	Total	1.8018E-07	所有权利归 100.0% otextile.nethris	1213

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## Table V-3-5: Climate Change of One Piece of Wool Jacquard Knitted Longjohn -Heather Rose (Order#PO-00001384) From Ai

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net, any unauthorized use is illegal. Het, any unauthorized Contribution 任何未经授权的使用。	Climate Change, Aircraft (kg CO <sub>2</sub> e)	Percentage Share (%)
[1] Raw materials	Report No 0.0000E+00 unauthorized	use is lilegal. 内层非法。
[2] Product manufacturingAll right reserved to	y www.sinotextile.net2.2498E-07 经授权的使用,	99.99%
[3] Packaging	4.0234E-12	0.00% sinotextile.ne
[4] Transportation	1.6143E-11	All right reserved by 0.01% textile.net所有,
Total	2.2500E-07	100.0%

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eport No. 13N1010000 una **Table V-3-6: Climate** Change of One Piece of Wool Jacquard Knitted Longjohn- Mood Indigo w.sinotextile.net, any una **Table V-3-6: Climate** Change of One Piece of Wool Jacquard Knitted Longjohn- Mood Indigo (Order#PO-00001384) From Aircraft

Phase Contribution All right reserved by W	Report Climate Change, Aircraft rized www.sinotek.met (kg CO2e) 全授权的使用,totacktile.net (kg CO2e) 全授权的使用,totacktile.net (kg CO2e)	馬非法。 Percentage Share (%)
[1] Raw materials	0.0000E+00	0.00%
[2] Product manufacturing	2.2498E-07	All right reserved by the sectile.
[3] Packaging	4.0234E-12	0.00%
[4] Transportation	1.6143E-11	0.01%
Total	2.2500E-07	100.0%

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# 5.4 Summary

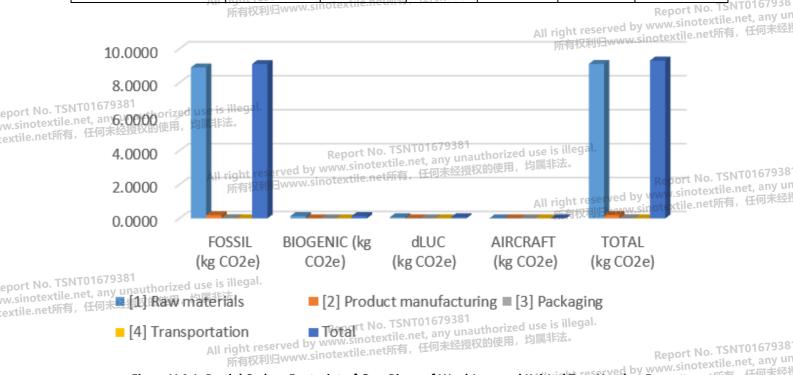
eport No. TS The Total value of carbon footprint from cradle to gate of 6 types of wool jacquard knitted top/body/longjohn are w.sinotextile.net所有 eported as below. 均属非法

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Table V-4-1: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Top- Heather Rose Order#PO\_00001

_	Table V-4-1: Part	ial Carbon Footp 所有权利 (Order	rint of One Pied #PO-00001340)	19/	•	d Top- Heathe	parort No. T	SNT016793
	Phase Contribution	Fossil (kg CO₂e)	Biogenic (kg CO₂e)	dLUC (kg CO₂e)	AIRCRAFT (kg CO <sub>2</sub> e)	ght Total ed b	Percentage Share (%)	有,任何未给
	[1] Raw materials	8.8994	0.1362	0.0691	0.0000E+00	9.1047	97.84%	
DOLL MO	[2] Product manufacturing	illega0.1878	0.0000	0.0001	5.2259E-08	0.1879	2.02%	
v.sinotextile.	[3] Packaging th 中 均属非	5.0092	0.0000	0.0000	5.0822E-12	0.0092	0.10%	
extile.net所有	[4] Transportation	0.0034	Rep0,0001. TSI	0.0000	1.4160E-11	ille0:0035	0.04%	
	Total	ight 9.0998d by	۸۷۷0.1363 xtile	0.0692	5.2278E-08	<del>法。</del> 9.3053	100.0%	
_	Pill	EC##U≠IIIIIWWW.SI	notextile.lletinis				Papart No. T	2NT016/2

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www.sinotextile.net, any un Figure V-4-1: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Top- Heather Rose tile.net所有,任何未经的 (Order#PO-00001340) from Cradle to Gate

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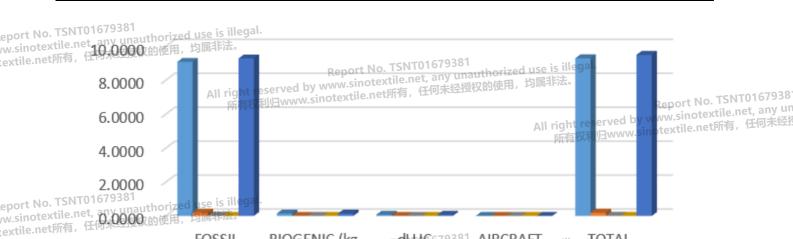
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Table V-4-2: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Top- Mood Indigo (Order#PO-00001340) from Cradle to Gate

Phase **Fossil Biogenic dLUC Aircraft Total Percentage** Contribution (kg CO<sub>2</sub>e) (kg CO<sub>2</sub>e) (kg CO<sub>2</sub>e) (kg CO<sub>2</sub>e) (kg CO<sub>2</sub>e) Share (%) extile net [1] Raw materials 9.0803 0.1411 0.0700 0.0000E+00 9.2914 97.89% 0.0000 ino 0.0001 5.2259E-08 [2] Product manufacturing 0.1878 0.1879 1.98% [3] Packaging 0.0092 0.0000 0.0000 5.0822E-12 0.0092 0.10% 0.0000 v0.04% note: [4] Transportation 0.0034 0.0001 1.4160E-11 0.0035 9.2807 0.0701 5.2278E-08 9.4920 100.0% Total 0.1412

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[1] Raw materials [4] Transportation Total

Figure V-4-2: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Top- Mood Indigo eport No. TSN1U1079501 rw.sinotextile.net, any unauthorized use is illegal. (Order#PO-00001340) from Cradle to Gate extile.net所有,任何未经授权的使用,均属非法。

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# Table V-4-3: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Body -Heather Rose (Order#PO-00001334) from Cradle to Gate

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	•			•	•				
(Order#PO-00001334) from Cradle to Gate									
T0167938 Phase zed use is net, an Contribution 内面部	illegal.Fossil ≛。 (kg CO₂e)	Biogenic (kg CO₂e)	dLUC (kg CO₂e)	Aircraft (kg CO₂e)	Total (kg CO₂e)	Percentage Share (%)			
[1] Raw materials	7.7503	0.1184	SN 0:0600 38	0.0000E+00	is il7.9287	92.35%			
[2] Product manufacturing	0.6445	v ww0.0002text	0.0004	1.8015E-07	非达0.6447	7.51%			
[3] Packaging	0.0074www	sino 6.0000 netp	0.0000	4.1293E-12	0.0074	R.0.09%10. TS			
[4] Transportation	0.0043	0.0002	0.0000	1.7706E-11	0.0045 <sub>ed</sub> b	y ww 0.05% <sup>textil</sup>			
Total	8.4065	0.1184	0.0604	1.8018E-07	有 8.5853 WW	100.0%			

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Figure V-4-3: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Body -Heather Rose eport No. TSNT01679381 (Order#DO\_0001334) from Only Unauthorized use is illegal. rw.sinotextile.net, any unauthorized use is illegal. extile.net所有,任何未经授权的使用,均属非法。

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All right reserved by www.sinotex Table V-4-4: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Body- Mood Indigo (Order#PO-00001334) from Cradle to

	idole v 4 4.1 die	(Order#PO-00001334) from Cradle to Gate									
eport No. TSN rw.sinotextile.n rextile.net所有,	Phase Contribution use is il	Fossil egal(kg CO₂e)	Biogenic (kg CO₂e)	dLUC (kg CO₂e)	Aircraft (kg CO₂e)	Total (kg CO₂e)	Percentage Share (%)				
	et, ally different 内屋3E沃	7.9001	0.1224	0.0608	0.0000E+00	8.0833	92.49%				
extile.lieth is	[2] Product manufacturing	0.6445	Re-0.0002 TS	0.0004 na	1.8015E-07	0.6447	7.38%				
	[3] Packaging All	right 0:0074ed by	0.0000	0.0000	4.1293E-12	0.0074	0.08%				
	[4] Transportation	0.0043	0.0002	0.0000	1.7706E-11	0.0045	Rep0.05%				
	Total	8.5563	0.1224	0.0612	1.8018E-07	8.7399	note 100.0% t所有				
1					1717	日はイジー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・					

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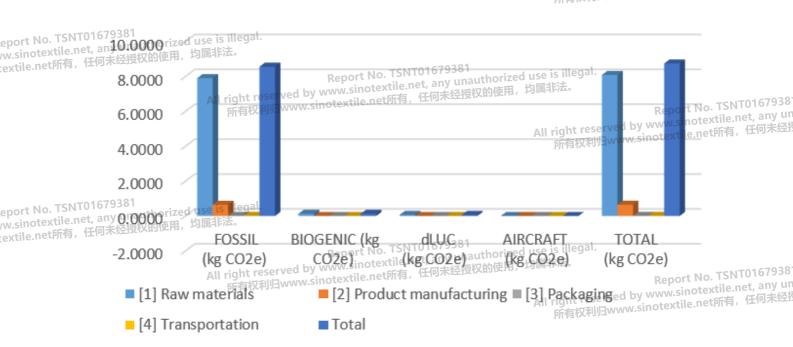


Figure V-4-4: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Body- Mood Indigo (Order#PO-00001334) from Cradle to Gate

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#### Table V-4-5: Partial Carbon Footprint of One Piece Of Wool Jacquard Knitted Longjohn -Heather Rose thorized use is illegal. (Order#PO-00001384) from Crac

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1701679381 (Order#PO-00001384) from Cradle to Gate									
(Contribution	Fossil (kg CO₂e)	Biogenic (kg CO <sub>2</sub> e)	dLUC (kg CO <sub>2</sub> e)	Aircraft (kg CO₂e)	Total (kg CO₂e)	Percentage Share (%)			
[1] Raw materials	II righ <b>7.0765</b>	sino 0.1079net#	0.0544	0.0000E+00	7.2388	98.95%			
[2] Product manufacturing	0.0651	-0.0002	0.0005	2.2498E-07	0.0654	0.89% extile			
[3] Packaging	0.0074	0.0000	0.0000	4.0234E-12	0.0074	sinot 0.10% et所			
[4] Transportation	0.0039	0.0002	0.0000	1.6143E-11	0.0041	0.06%			
T01679381 Total	7.1529	0.1079	0.0549	2.2500E-07	7.3157	100.0%			

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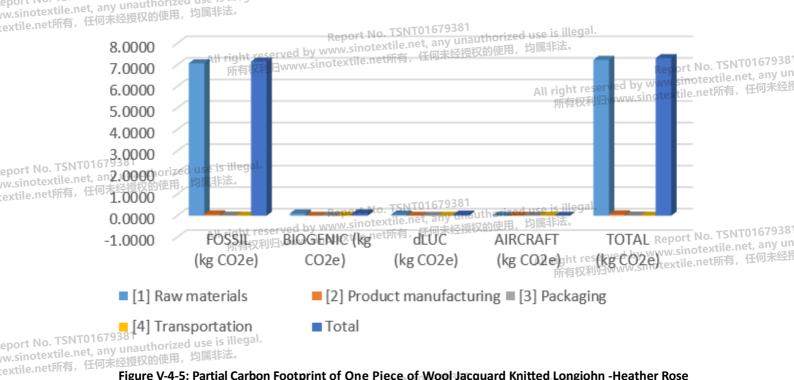


Figure V-4-5: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Longjohn -Heather Rose (Order#PO-00001384) from Cradle to Gate

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# Table V-4-6: Partial Carbon Footprint One Piece Of Wool Jacquard Knitted Longjohn - Mood Indigo (Order#Po-00001384) from Cradle to Gate

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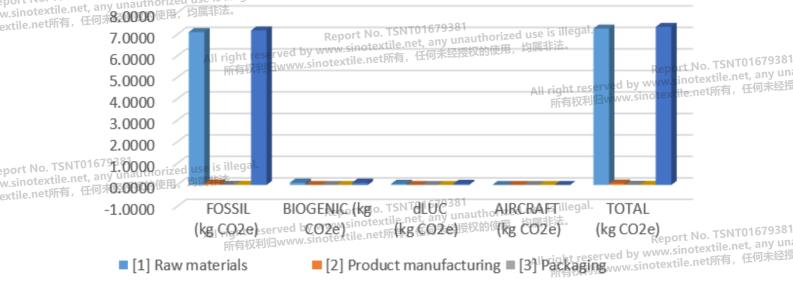
(Order#Po-00001384) from Cradle to Gate										
01679381 Phase ed use is il	egal Fossil (kg CO₂e)	Biogenic (kg CO₂e)	dLUC (kg CO₂e)	Aircraft (kg CO₂e)	Total (kg CO₂e)	Percentage Share (%)				
[1] Raw materials	7.1100	Re0.1088o. TS	NT 0.0546 <sup>81</sup>	0.0000E+00	s ille <b>7,2</b> 734	98.95%				
[2] Product manufacturing	right 0.0651ed by	ww-0.0002 xtile	0.0005	2.2498E-07	<b>法</b> 0.0654	0.89%				
[3] Packaging	所有 0.0074 WW.S	0.0000	0.0000	4.0234E-12	0.0074	Rep0.10%. TSI				
[4] Transportation	0.0039	0.0002	0.0000	1.6143E-11	nt r <b>0.0041</b> 1 by	0.06%				
Total	7.1864	0.1088	0.0551	2.2500E-07	7.3503	100.0%				

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[1] Raw materials

[4] Transportation Total

eport No. 15N1010757 Figure V-4-6: Partial Carbon Footprint of One Piece of Wool Jacquard Knitted Longjohn- Mood Indigo w.sinotextile.net, any 证何未经授权的使用,均属非法。 extile.net所有,任何未经授权的使用,均 (Order#PO-00001384) from Cradle to Gate

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## 6. INTEPRETATION

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A result overview refers to **Table V-4** in **Chapter 5** sinotextile.net, any unauthorized use is illegal.
The partial ICA ctual. 

Report No. TSNT01679381 • Regarding greenhouse effect, the 6 types of garments have different influence on total GHG emission, which net, any units to the first of the firs are ranged from 7.3157 kg CO<sub>2</sub> eq to 9.4920 kg CO<sub>2</sub> eq. However, the raw materials used in these products

have much greatly influence on total GHG emission, which account from 92.35% to 98.95%. port No. TSNT0167 Energy and resource consumption in product manufacturing account for 0.89% to 7.51% of the total impact, w.sinotextile.net, which is the second influential factor after the raw materials.

The effect of product package and transportation are limited relatively

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6.2 Completeness, Consistency, and Sensitivity Analysis

Make and Sensitivity Analysis

## **6.2.1 Completeness Analysis**

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The principles of data collection, cut-off rules and allocation methods used in this study meet the integrity requirements of LCA.

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#### 6.2.3 Sensitivity Analysis

port No. TSN The sensitivity analysis is to identifies the significance of the impacts on carbon footprint regarding the variability w.sinotextile of the parameters and the data. extile.net所有

As there is no separate meter, the total electricity consumption used in one piece of wool jacquard knitted topheather rose during the semi-finished jacquard knitted fabric/interlock knitted fabric manufacturing process in this study is assumed to be 2.6544 kWh/kg / 0.7964 kWh/kg, in alternative scenario 1, calculated by the ratio of All right reserved by www.sinot 所有权利归www.sinotextile.net所有,任何未经授 equipment power to the total power of the workshop.

On the other hand, in alternative scenario 2, the total electricity consumption used in one piece of wool jacquard knitted top-heather rose during the semi-finished jacquard knitted fabric/interlock knitted fabric manufacturing process in this study is assumed to be 1.4469 kWh/kg / 1.4469 kWh/kg, calculated by the ratio of the weight of this kind of fabric to the total weight of the fabric produced in the workshop.

www.sinotextile.net, any unauth Take one piece of wool jacquard knitted top-heather rose as an example. Under scenario 1 and scenario 2, the To1679381 sensitivity analysis results for the electricity consumption in the manufacturing process of semi-finished heathernet, any unique sensitivity analysis results for the electricity consumption in the manufacturing process of semi-finished heathernet, any unique sensitivity analysis results for the electricity consumption in the manufacturing process of semi-finished heathernet, any unique sensitivity analysis results for the electricity consumption in the manufacturing process of semi-finished heathernet, any unique sensitivity analysis results for the electricity consumption in the manufacturing process of semi-finished heathernet, any unique sensitivity analysis results for the electricity consumption in the manufacturing process of semi-finished heathernet and the semi-finished he rose jacquard knitted fabric/interlock knitted fabric are as below. Sensitivity can be expressed as a percentage change of results present in Table VI-1.

# Table VI-1: Sensitivity Analysis Of The Alternative Scenarios Of The Electricity Consumption

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Alternative scenario 1	2.6544	0.7964	9.3053	1.95%	
Alternative scenario 2	1.4469	1.4469	9.2697	1.73%	

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### **6.3 Uncertainty Assessment**

port No. TS The Monte Carlo method is used to calculate the uncertainty of the results. For raw data themselves, uncertainties w.sinotextile extile net in may exist due to limitations of accuracy of the instruments, inconsistencies between the time spots of data recording, and the actual production time, etcReport No. TSNT016/9301

Take wool jacquard knitted top-heather rose as an example, the overview of uncertainty analysis result is shown in Figure VI-2. The horizontal axis represents the possible results, and the vertical axis represents the probability and under the probability of 所有权利归www.sinotextile.net所有,任何未经授 of the corresponding result occurring. The specific results refer to Table VI-2 belowight reserved by www

Figure VI-2: Uncertainty Analysis of The Partial CFP Result

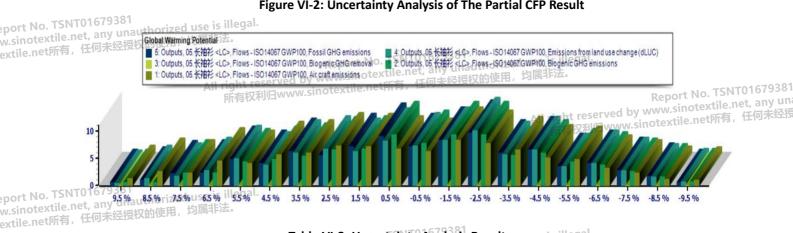


Table VI-2: Uncertainty Analysis Results duse is illegal.

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	Data	Average Value (kg CO2e)	Mid-Value (kg CO <sub>2</sub> e)	Standard Deviation	Lower Limit of 80% Confidence Interval	Upper Limit Of 80% Confidence Interval	tile.net, any ur t所有,任何未经 <sup>持</sup>
	Aircraft (kg CO₂e)	5.2446E-008	5.2379E-008	4.93%	4.9311E-008	5.5783E-008	
port No. TSNT016 w.sinotextile.net,	Biogenic Removal r(kg CO <sub>2</sub> e) orized use is i	lleg@:0000	0.0000	0.00%	0.0000	0.0000	
extile.net所有,任何	未经授X的使用, Biogenic (kg CO₂e)	0.1418	0.1418 Report No. T	SNT4.80%381	0.1332 uthorized use is illegal	0.1505	
	dLUC (kg CO <sub>2</sub> e) All r	ight 0:0688°d by 诉有权利归www.s	www.sinotexti inot <sup>0</sup> .06881etFf	fe.net, any tind 有,5.01% <sup>经授</sup>	文的使用,均属非法。 0.0645	0.0732 Report No	
	Fossil (kg CO₂e)	9.0460	9.0369	4.91%	8.4867 right res 所有权利	served by www.sinote JJ3www9i6076xtile.ne	所有,任何未经持

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extile net in Since the electricity consumption in fabric production is allocated by equipment power, there is limitation in this All right reserved by www.sinotextile.net, any unauthorized use is illegal.

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### 6.5 Recommendations

port No. ISN Based on the above report, the recommendations are as follows:

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 Additional measuring instruments, such as electric meters, may be added in the workshops to minimize assumptions and make the collected data more accurate.有,任何未经授权的使用

Report No. TSNT01679381 • Increased use of renewable energy sources such as green electricity should reduce the total carbon emissions of 任何未经历 finished products.

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Andrew shen Gino Li

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