



*L. Verga Como*

## SUSTAINABILITY

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QUALITY - ENVIRONMENT - SOCIAL ETHICS



DATE	REV	REVIEW DESCRIPTION
15/06/2023	00	2023 EDITION
03/07/2022	00	2022 EDITION
06/07/2021	00	2021 EDITION
05/06/2020	00	2020 EDITION
10/05/2019	00	2019 EDITION
02/04/2018	00	2018 EDITION
01/06/2017	00	2017 EDITION
21/05/2016	01	FIRST EDITION

*L. Verga Lomo*

Tessitura e Stamperia LUIGI VERGA S.p.A.  
Via Risorgimento, 12 – 22071 - Bulgorello di Cadorago (CO)

SJ0104

A person wearing a black and white striped shirt is working with large rolls of fabric in a factory setting. The background shows a conveyor belt and a label with the number 'SJ0104'. The scene is lit with warm, yellowish light.

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2023 EDITION

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# 01

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## PREMISE AND SCOPE OF THE DOCUMENT

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Tessitura e Stamperia Luigi Verga S.p.A. is committed to sustainable production.

We often find ourselves talking about SUSTAINABILITY however we often do not explore the true meaning of this school of thought.

*What is sustainability?*

For our company: it means being geared toward continuous innovation, on multiple fronts, designing fabrics that meet fundamental principles.

These can be identified, for example, through the selection of what are considered high quality, standard raw materials that follow the basic principles of environmental and, just as crucially, social standards.

Sustainability means learning to live within the limits of our planet, without exploiting natural systems from which we extract resources and without exceeding their capacity to absorb waste and the trash generated by our doings.

This definition captures the true meaning from which we must take our cue in order to live our lives in a smart way.

**Smart:** a key word that should always go hand-in-hand with sustainability. Smart sustainability means building on concrete and feasible best practices, without focusing on a potential outcome, but instead giving value to the effect it has on the environment.

Our goal is to **assess and monitor the supply chain to minimize the impact on the environment.**

Our actions must therefore be carried out in a way that allows today's generation to live in a world in which their needs are met, without compromising the needs of future generations.

Sustainability must therefore be implemented by designing and producing fabrics with the least environmental impact, aimed at satisfying the demands of our clients and, in our case as a vertically integrated textile company, employing the necessary and sometimes rigid attention to each step of the process to achieve the desired result.

We do not wish to preach about the complex practices of a circular economy but wish instead to lay a foundation, along with others, and set a path that we hope one day will lead the way to a happy (new) horizon.



## 2023 Edition

This document is in its eighth edition. It is a limited and numbered, confidential edition, and cannot be photocopied.

In "sharing" the data that comprises our operations, it seems appropriate to highlight our commitment to the "4SUSTAINABILITY<sup>®</sup>" project (see page 25).

First of all, we clearly disclose the adopted self-check procedures relating to:

### A. Quality of fabrics

- 1- Performance and ecotoxicological characterization related to incoming raw and semi-finished fabrics and outgoing finished fabrics
- 2- Control and assessment of chemicals, formulations and dyes, each characterized by its own safety profile
- 3- Drafting and managing a plan for safety checks, for performance, ecotoxicological, health and safety properties
- 4- Compliance with mandatory requirements (EU Regulation No. 1907/2006-REACH)

### B. Environmental pollution

- water extraction control
- water waste control
- atmospheric emission control with greater periodicity than required by law

### C. Power consumption

- methane consumption
- electricity consumption
- water consumption in accordance to the Clean By Design program

### D. Ethical-deontological code

### E. Code of social conduct

### F. Adherence to protocols :

Kering - Clean by Design - LVMH- Richmond - ZDHC - LVMH - Tessile salute - 4Sustainability<sup>®</sup>

### G. Gots Certification

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# 02

BENCHMARKS

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## **In regards to fabrics and production processes, the adopted protocols and controls as required by:**

### **Textiles and Health, 4 Sustainability® and Gots**

- Quality Management and Environmental Management Requirements
- Social Responsibility Requirements
- Deontological Requirements
- Product Traceability and Processing
- Guidelines for drafting a plan of controls for performance and eco-toxicological characteristics
- Progressive decrease and/or replacement of 19 groups of hazardous substances (over 300 substances)
- Selecting Suppliers i.e., adding to the list of suppliers for raw, semi-finished products, chemical products and dyes, only those suppliers who undersign, for the part applicable to them, the commitment that allows Tessitura e Stamperia Luigi Verga to comply with the above mentioned points.

## **In regards to environmental pollution, we referred to:**

- AAUA, Province of Como Single Environmental Authorization, PD 252/29088
- Law 152/2006, environmental regulations

## **In regards to energy consumption:**

- Legislative Decree 102/2014 : energy audits
- Clean by Design : efficiency program

## **In regards to hygiene and safety in the workplace:**

- Legislative Decree 81/2008: Protection of health and safety in the workplace

### Unit of measurement

Electricity	kWhe	Electric kilowatt-hour
Natural gas	Sm3	Standard cubic meter
Conductivity	μS/cm	Microsiemens /centimeter
Pollution Load	mg/l	Milligrams / liter
Pollution Load	mg/Nm3	Milligrams / Normal cubic meter

### Pollutant load

Pollution load	mg/l	Chemical Oxygen Demand (COD)
Pollution load	mg/l	Biochemical Oxygen Demand (BOD)
Pollution load	mg/Nm3	Volatile organic compounds (VOCs)
Pollution load	mg/Nm3	Carbon Monoxide (CO)
Pollution load	mg/Nm3	Nitrogen oxides (NOx)

### Test Methods Used for testing

Name	Method	Limit of detectability
Determination of alkylphenol ethoxylates	ISO 18254-1	1 mg/kg
Determination of free and extractable formaldehyde	ISO 14184-1	16 mg/kg
Determination of aromatic amines derived from azo dyes	EN 14362-1 e -3	5 mg/kg
Temperatures and flow rates	UNI EN ISO 16911:2013	
Ammonia	M.U. 632:84	
C.O.V.	UNI EN 12619:2013	
Animal and vegetable oils fats	L.E.A. IRSA APAT 29 (03) 5160 A1rev.2 (04)	
Aromatic organic solvents	L.E. APAT CNR IRSA 5150 MAN 29 (03)	
Chlorinated solvents	L.E. APAT CNR IRSA 5150 MAN 29 (03)	
Sulfites	L.E.A. IRSA APAT 29 (03) 4150 B rev.1 (04)	
Total hydrocarbons	L.E.A. IRSA APAT 29 (03) 5160 B2 rev.4 (08)	

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03

A HISTORY OF  
INNOVATION

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## 1940

Tessitura Stamperia Luigi Verga is a place where Como's silk tradition, innovation, craftsmanship, attention to trends, creativity and technique meet. Customers all over the world appreciate our work and our fabrics. With the help of our designers, we make our customers' ideas a reality, and give fabrics new life and new form. For three generations, we have been producing traceable "Made in Italy" fabrics with pride and passion. Tessitura Stamperia Luigi Verga was founded in 1940 by Mr. Luigi Verga. Today, it is run by his daughters Adriana and Maria Stella Verga, who proudly carry on the tradition of the Como textile industry that has made "Made in Italy" famous throughout the world.

Currently, the founder's granddaughters also participate in the life of the company, continuing their grandfather's work.

## 1960 - 1990

The company, which in the 1960s dealt only with weaving, decided to integrate and develop its activities by including the printing and finishing departments. Thanks to this decision, the company took on an important role in international markets, establishing itself as one of the leading companies in the production of fabrics for women's clothing.

In the 1990s, despite companies' trend toward outsourcing activities, Tessitura Stamperia Luigi Verga decided to continue producing its fabrics in Italy, thus avoiding the scattering of resources abroad, keeping the entire production cycle under control, and promoting "Made in Italy" and its traceability.

In 1999 the company acquired Samco, a company that specialized in the sale of dobby fabrics and had a department for hand-painted fabric. The company's next decisive innovation is exemplified by a shift that started around that same time and lasted until the early 2000s, when the family leading the company decided to take their chances into their own hands by improving its relationship with the market and invest in highly qualified personnel. All the while, the company stayed true to its mission of positioning itself at the highest end of the market, producing high-end fabrics.







## 2000

The results are a reward of this entrepreneurial choice, and created the necessary conditions for the company to decide to invest in upgrading and implementing the weaving department in January 2002.

The company built a new jacquard weaving loom that was more responsive, faster and capable of achieving high flexibility in terms of product and production. The new production layout made it possible to ensure heightened customer service in a shorter timeframe. This technological investment was completed with the opening of the inkjet department in 2006, and with intensive training for its workers.

In 2013 the company began the renovation of the entire finishing department, enlarging it and making it more efficient both in terms of energy and speed. All the old machinery was replaced with new generation machinery, thus increasing production capacity.

## TODAY

Today, Tessitura Stamperia Luigi Verga employs around 90 people and is positioned as a verticalized company in the luxury sector.

Tessitura Stamperia Luigi Verga values being considered as a partner instead of a supplier by its customers.

It is essential for the customer, especially in today's market, to find a partner who can respond to needs quickly and competently. The company has wide flexibility and an ability to adapt to specific customer requirements in order to be on the market quickly with products that still have a strong character of craftsmanship, while maintaining sustainability.

In addition, the company is very careful about certifying its product by also depositing each of its designs, thus making each fabric unique and certified by the company's verifiable intellectual property.

To date, the company follows the 4sustainability@protocol, striving to improve all its inherent aspects inherent by implementing sustainable processes to reduce waste and environmentally harmful substances.



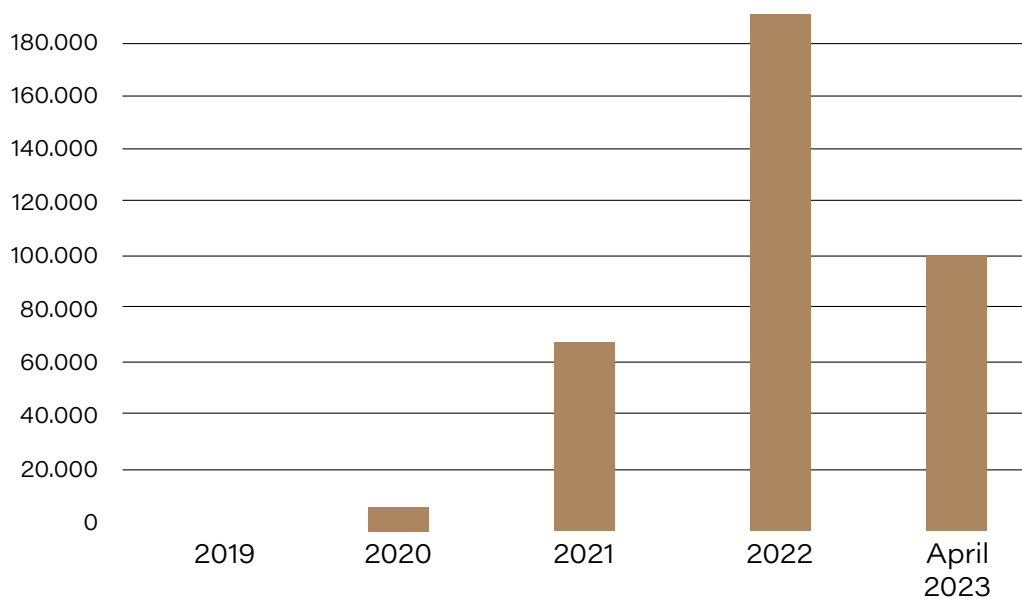
## Notes on the meters of fabric sustainably produced

Since 2019, Tessitura Stamperia Luigi Verga S.p.A. has undertaken tests, and got to work on possible collections for the production of sustainable fabrics.

The results of this research have been rewarding, and in the four-year period between 2019 and 2022, production has evolved in order to better meet the demands of customers.

The above can be seen by looking at the diagram below, which shows the quantities produced.

### Meters of Fabric Sustainably Produced



These results also stem from the investment policy made over more than a decade of new machinery acquisitions and novel processes.

## Production cycle

FABRIC DESIGN

PROTOTYPING

TRADITIONAL  
PRINTING - INKJET

JACQUARD  
WEAVING

HAND-PAINTING  
DEPARTMENT

STEAMING

DYEING

WASHING

FINISHING

DRYING

FINISHING

INSPECTION, PACKING AND SHIPPING

## Investment road map



### 2010

- Inkjet machines replacement

### 2011

- Inverter - compressors
- Air duct system

### 2012

- New well  
(pump-chamber-line)
- Natural gas hookup

### 2013

- New finishing department
- Steaming - Washing - Drying chamber
- In-house analysis laboratory



### 2014

- Heat recovery units during washing
- Step-by-step controls
- New water softening system



### 2015

- LED lighting
- Weaving and finishing
- Renovation of the quality control department
- Mirrors and packing machine
- New direct combustion natural gas sheeter
- Free Steaming Machine
- New Inkjet department, with associated insulation and conditioning of the department
- Replacement of after printing drier machine from electric to natural gas
- Clean by Design membership

## 2017-18

- Installation of looms for Jacquard 4.0 management
- Adherence to the various verification steps required by Versace, Richmond Group, Kering Group
- Verifying the feasibility of “Diamontex” for nitrogen reduction
- Verifying the feasibility for wind and photovoltaic systems installation
- ZDHC (Zero Discharge Harzadous Chemicals) certified through Seri.Co certification
- Benefit Corporation verification exceeding necessary requirements for the certification
- QUID Association (see page 63)



## 2016

- LED lighting for non- renovated areas
- Chemicals management system implementation and process and product controls
- Energy consumption monitoring

## 2017

- Fire protection system refurbishment
- Successful completion of Clean by Design activities



## 2018-19

- High-efficiency, fully automated boiler complete
- New generation sample warping machine
- Continuation of 4.0 activities for Jacquard looms
- Undersigning of the agreement with social cooperatives for the job placement of disadvantaged people
- Research and development in the use of recycled fibers
- Ongoing rapport with QUID (project for the recycling of quality fabrics, Made in Italy, at the hands of women with a disadvantaged and at-risk background)



## 2019-20

- Latest generation inkjet machine
- Renovation of the finished goods control and packaging departments
- New air conditioning system for operating areas
- Further compliance with regulatory requirements for fire prevention certificate based on new layout configurations

## 2020-21

- Completion of fire prevention certificate procedures
- Purchase of dyeing machine for specialized finishing processes.
- Electricity supply with 33% sustainable energy- GOTS certification
- Textile waste disposal carried out by Green Up certified company
- Planning for some best practices for sustainability:
  1. Feasibility study for the installation of photovoltaic panels
  2. Replacement of some diesel/petrol operated vehicles with hybrid vehicles.



## 2021-22

- Obtaining fire prevention certificate for the weaving mill
- Adherence to the 4sustainability® protocols
- New yarn warehouse
- Installation of six Jacquard 4.0 looms
- Installation of machines for laboratory testing and finishing new processes
- Usage of 100% renewable electricity

## 2022-23

- Study and quote for the construction of canopies with photovoltaic panels for the company parking lot
- Upcycling project: reuse of woolen loom rag to make a new yarn to be used to make new sustainable textiles
- Purchase of new warper
- Joined Ecolario's Hanami project
- Awarded the Foundational certificate by ZDHC
- Completion of Gots certification for the entire processing cycle of our weaving, printing, finishing and marketing departments
- Purchase of new Jacquard looms



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04

SUSTAINABILITY

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## 4sustainability®

Tessitura Stamperia Luigi Verga S.p.A. has joined the 4sustainability® commitment and implements THE 4S CHEM INITIATIVE for the elimination of toxic and harmful substances in the production line through MRSL ZDHC and THE 4S TRACE INITIATIVE for process traceability and supply chain monitoring.

The level of implementation of the 4S CHEM AND 4S TRACE INITIATIVES (Ongoing, Basic, Advanced, Excellence) is verified year to year through a quantitative and qualitative assessment tool that ascertains whether the requirements-relating to the organizational structure, production process mapping, chemical inventory assessment, production traceability, and training, among others-have actually been implemented and to what extent.

*Attached are copies of the documents.*

*Hard copies are available for consultation at our offices.*



4sustainability® is an innovative implementation framework and a registered mark assuring the sustainability performances of fashion & luxury supply chain. The framework is built and continuously updated in line with the best methodologies, standards and practices.



Tessitura Stamperia Luigi Verga S.p.a. has joined the 4sustainability® Commitment and applies the 4s CHEM Protocol for eliminating toxic and harmful substances in production through the ZDHC MRSL.

### CHEM IMPLEMENTATION LEVEL



<b>COMPANY ID Nr.</b>	4S-100400	<b>VERS. PROTOCOL CHEM:</b>	4.2
<b>ASSURANCE RATING:</b>	82%	<b>EXPIRATION DATE:</b>	06/02/2024
<b>ISSUE DATE:</b>	06/02/2023		

Issue by:  
Process Factory s.r.l.  
Via A. Da Noli, 4/6 - 50127 Firenze  
CF/P.IVA: 058052004





# ABSTRACT

## 4s Assurance Report Chemical Management Version 4.2



Tessitura Stamperia Luigi Verga S.p.a.

### 4s REQUIREMENTS

**Management system**

Evaluating the implementation of a chemical management system within the company. The verified requirements range from the presence and communication of an internal sustainability policy, to staff training, as well as to the definition of reduction targets and monitoring of over-time performance.

**Chemical risk management**

Assessing chemical's risk management within the factory. The verified requirements measure the chemical inventory information management, the related qualification level to ZDHC MRSL 2.0, and related phase put plan and improvement plan.

**Materials risk management**

Assessing the management and control system of incoming materials and their compliance level with 4sustainability PRSL, as a tool for reducing the risk of incoming contamination in the production process.

**Supply Chain assessment**

Evaluating the company's supply chain management and assessment. The verified requirements measure the mapping activity, qualification, engagement, training and monitoring of subcontractors and material suppliers and all the procedures in place.

**Process management**

Assessing the production processes management and traceability. The verified requirements measure the correct functioning of the internal traceability system and its digitalization. Moreover it includes process due-diligence tests in order to monitor contamination on the products.

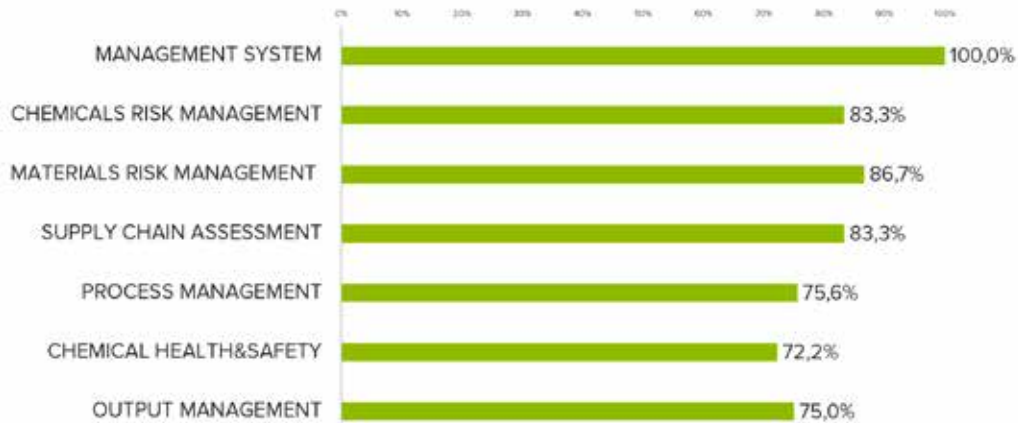
**Chemical Health&Safety**

Assessing health and safety requirement linked to chemical management. The verified requirements range from labeling, handling and storage of chemical products within the factory, to emergency procedure and waste management.

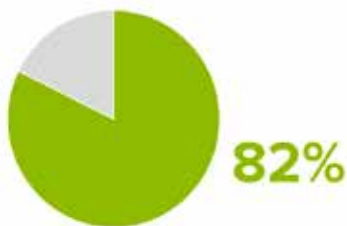
**Output Management**

Evaluating the company management of process output. The verified requirements range from legal permission for emission to the control of waste water according to ZDHC Guidelines, for internal and external processes and final product testing.

### 4S REQUIREMENT - IMPLEMENTATION LEVEL



**ASSURANCE RATING**



**ASSURANCE DATE**

18/01/2023

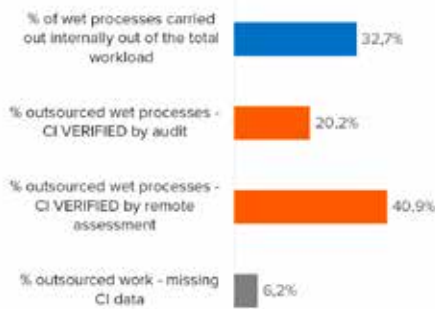
### PRODUCTION MODEL

The company manufacture and sells yarns  
The company carries out internal processes of dyeing and does not outsource any processes.

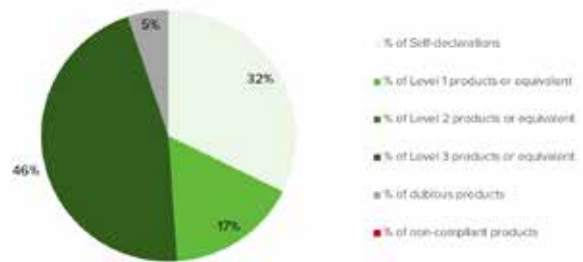
Name of Internal Chemical Manager: Margherita Gaffuri  
ZDHC accredited training course and date: ZDHC CMS TIG Training del 27 - 28 aprile 2022

### INPUT

#### CHEMICALS



#### INTERNAL CHEMICAL INVENTORY



The production coverage was calculated on the base of the meters processed by all external wet processors, assuming an average weight of each linear meter equal to 0.21 kg

Internal availability of chemical product batches

For all internal processes

### RAW MATERIALS

#### RAW MATERIALS SUPPLIERS RATING



### OUTPUT

#### INTERNAL WASTEWATER

CETP (Central Effluent Treatment Plant) - PRE TREATMENT MONITORING (Raw waste water)

#### MRSL Parameters



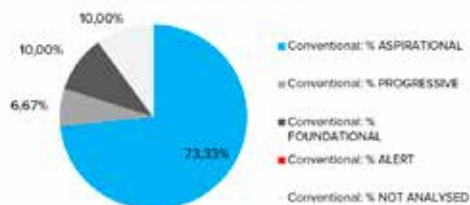
### EXTERNAL WASTEWATER

SUBCONTRACTOR 2

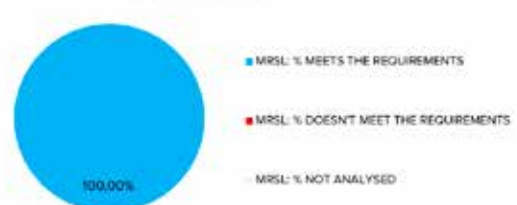
% OF EXTERNALISED PROCESSES: 20%

Internal Wastewater Treatment Plant - POST TREATMENT MONITORING

#### Conventional Parameters



#### MRSL Parameters

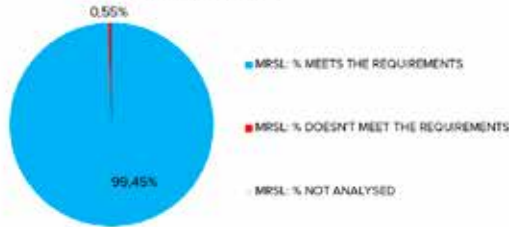


**SUBCONTRACTOR 3**

% OF EXTERNALISED PROCESSES: 8%

CETP (Central Effluent Treatment Plant) - PRE TREATMENT MONITORING (Raw waste water)

**MRSL Parameters**

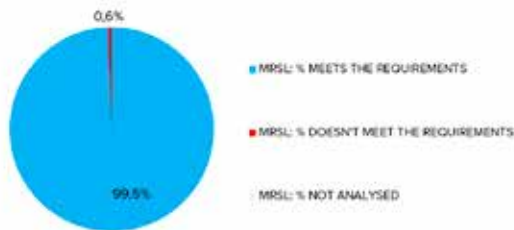


**SUBCONTRACTOR 4**

% OF EXTERNALISED PROCESSES: 5%

CETP (Central Effluent Treatment Plant) - PRE TREATMENT MONITORING (Raw waste water)

**MRSL Parameters**

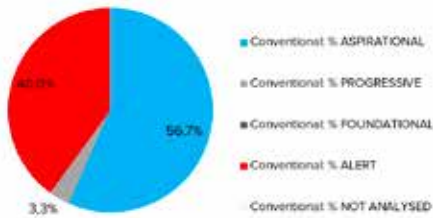


**SUBCONTRACTOR 5**

% OF EXTERNALISED PROCESSES: 4%

Internal Wastewater Treatment Plant - POST TREATMENT MONITORING

**Conventional Parameters**



**MRSL Parameters**

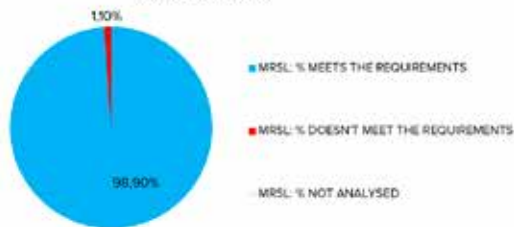


**SUBCONTRACTOR 6**

% OF EXTERNALISED PROCESSES: 3%

CETP (Central Effluent Treatment Plant) - PRE TREATMENT MONITORING (Raw waste water)

**MRSL Parameters**





4sustainability® is the Process Factory mark highlighting the adherence of textile and fashion & luxury companies to the sustainability roadmap. The implementation of each roadmap initiative is verified and measured annually based on a structured protocol of activities.

*L. Verga Como*

Tessitura Stamperia Luigi Verga S.p.a.  
has joined the 4sustainability® Commitment  
and applies 4s TRACE Protocol

**TRACE  
IMPLEMENTATION LEVEL**



<b>COMPANY ID Nr:</b>	4S-100400	<b>VERS. PROTOCOL TRACE:</b>	2.0
<b>DATA PERIOD:</b>	01/01/2022 - 31/12/2022	<b>EXPIRATION DATE:</b>	06/02/2024
<b>ISSUE DATE:</b>	06/02/2023		

Issue by:  
Process Factory s.r.l.  
Via A. Da Noli, 4/6 - 50127 Firenze  
CF/P.IVA: 05805200481





# ABSTRACT

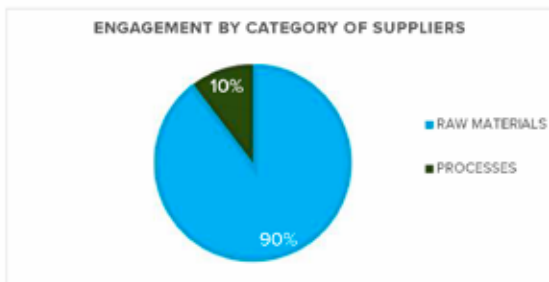
## 4s Assurance Report Trace

### Version 2.0



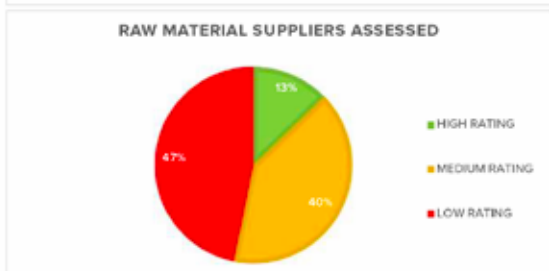
### Tessitura Stamperia Luigi Verga S.p.a.

The company is able to guarantee the complete traceability of its production, in reference to each order, also through an informatic management system  
the following indicators refer to the engagement of the supply chain on chemical management issues.



**SUPPLIERS INVOLVED**

**53,8%**



**RAW MATERIAL SUPPLIERS ASSESSED**

**49%**



**PROCESS SUPPLIERS ASSESSED**

**91%**



# GOTS

The purpose of the certification is to establish adherence to universal standards that ensure the certification of organic fabric, from the harvesting of raw fibers, to an environmentally and socially reliable production up to the labeling, thus providing a guarantee to the end consumer. Textile manufacturers and handlers can thus export their organic textiles and garments with a single certification accepted in all major markets.

The GOTS certification aids in ensuring compliance with each of the 17 U.N. Sustainable Development Goals to actively cooperate with all stakeholders.



Istituto per la Certificazione Etica e Ambientale - ICEA  
Via Giovanni Brugnoli, 15, 40122 Bologna BO, Italy  
www.icea.bio

## Scope Certificate

Scope Certificate Number ICEA-GOTS-23-1955/00A



### TESSITURA E STAMPERIA LUIGI VERGA SPA

License Number ICEA-TX-1544  
Via Volta 54  
Como, 22100  
Lombardia, Italy

has been audited and found to be in conformity with the

## GLOBAL ORGANIC TEXTILE STANDARD (GOTS) Version 6.0:2020

Product categories mentioned below (and further specified in the product appendix) conform with the standard(s):  
**Dyed fabrics (PC0025), Printed Fabrics (PC0039)**

Process categories carried out under responsibility of the above mentioned organization for the certified products cover:  
**Finishing (PR0012)\*, Printing (PR0023)\*, Washing (PR0032), Finishing (PR0012), Weaving (PR0033), Preparatory (PR0022), Printing (PR0023), Weaving (PR0033)\*, Dyeing (PR0008)\*, Preparatory (PR0022)\*, Spinning (PR0027)\*, Pre-treatments (PR0021)\***

\*The processes marked with an asterisk may be carried out by subcontractors.

This certificate is valid until: 2024-04-26

Place and Date of Issue  
Bologna, 2023-04-27

*Paolo Dumaca*

Document digitally signed with PAdES standard, check details in the signature panel or with GoSign

Certification Body



Standard Logo



Certification Body Accredited by: IOAS ; Accreditation Number: 26

This scope certificate provides no proof that any goods delivered by its holder are GOTS certified. Proof of GOTS certification of goods delivered is provided by a valid transaction certificate (TC) covering them.

The issuing body may withdraw this certificate before it expires if the declared conformity is no longer guaranteed.

# ZDHC

ZDHC's Roadmap to Zero program advocates for the eradication of harmful chemicals from the global supply chain of the fashion industry, laying the foundation for a more sustainable production that protects workers, consumers and our planet's ecosystems.



<p><b>Organization Name</b> Tessitura Stamperia Luigi Verga Spa</p> <p><b>Address</b> Via Risorgimento 12 Bulgorello Como Italy</p> <p><b>Email</b> info@luigivergaspa.it</p> <p><b>Telephone</b> +39 031888311</p> <p><b>ZDHC ID</b> A621EA76</p>	<p><b>TRID</b> TR191PM55</p> <p><b>Wastewater Guideline</b> ZDHC Textile Wastewater Guideline V2.1</p> <p><b>Reporting Cycle</b> 2023-Apr</p> <p><b>Reporting Date</b> 13-04-2023</p> <p><b>Sample Date</b> 15-03-2023</p>
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## Tessitura Stamperia Luigi Verga Spa Overview

<p><b>Sector</b> Apparel, Fabrics, Home textiles</p> <p><b>Materials</b> Man Made Cellulosic Fibers, Natural Fibers - Animal Origin, Natural Fibers - Plant based o...</p> <p><b>Processes</b> Finishing, Materials Creation, Printing</p> <p><b>Sample Locations</b> Effluent, Untreated,</p>	<p><b>Discharge Type</b> Indirect without Pretreatment</p> <p><b>Fibre Type</b> -</p> <p><b>Pre-Treatments</b> -</p> <p><b>Major Sludge Pathway</b> -</p> <p><b>% Representation of Sludge Disposal</b> 0%</p> <p><b>Average Total Wastewater Generated</b> 40.35 m3/day</p>
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## HIGH LEVEL PERFORMANCE

*Only partial results uploaded*

The section below shows the high-level results from your Laboratory test report in context with the ZDHC Wastewater Guidelines and scoring methodology. The numbers below display scoring of parameters tested that meet requirement set forth by the ZDHC Wastewater Guidelines. For more info on scoring methodology please refer Appendix B.

<p><b>N/A</b></p> <p>Conventionals and Anions</p>	<p><b>199/198</b></p> <p>MRSL</p>	<p><b>15/15</b></p> <p>Metals</p>
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# ZDHC

Tessitura Stamperia Luigi Verga S.p.a. decided to join this program because it firmly believes in the sustainability principles laid out in the ZDHC's Roadmap to Zero program.



VERIFIED REPORT

## Tessitura Stamperia Luigi Verga Spa

**Parent Company:**

Tessitura Stamperia Luigi Verga Spa

**E-mail:**

info@luigivergaspa.it

**Street Address:**

Via Risorgimento 12 Bulgorello Como Italy

**Report Date:**

26-04-2022

**Telephone:**

+39 031888311

**ZDHC ID:**

A621EA76

**Version:**

ZDHC Wastewater Guidelines V1.1

### DETAILED PERFORMANCE BREAKDOWN

The section below shows the detailed results from your Laboratory test report in context with the ZDHC Wastewater Guidelines and scoring methodology. Please note that indirect suppliers are not expected to achieve the foundational limits for conventional parameters set forth in Appendix A, Tables 1A-1B, of the ZDHC Wastewater Guidelines, therefore, indirect suppliers' data is not compared to ZDHC limits for conventional parameters, and Indirect Supplier should not compare their data to ZDHC limits for conventional parameters in line with the Wastewater Guideline. Temperature data is not currently scored on the ClearStream Report.

	INCOMING WATER	RAW WASTEWATER	SLUDGE	DISCHARGE WASTEWATER
<b>Conventional Legend:</b> 				NOT ANALYSED
<b>MRSI Legend:</b> 				NOT ANALYSED

# . WATER EXTRACTION

## Water consumption data

2016 - 2022

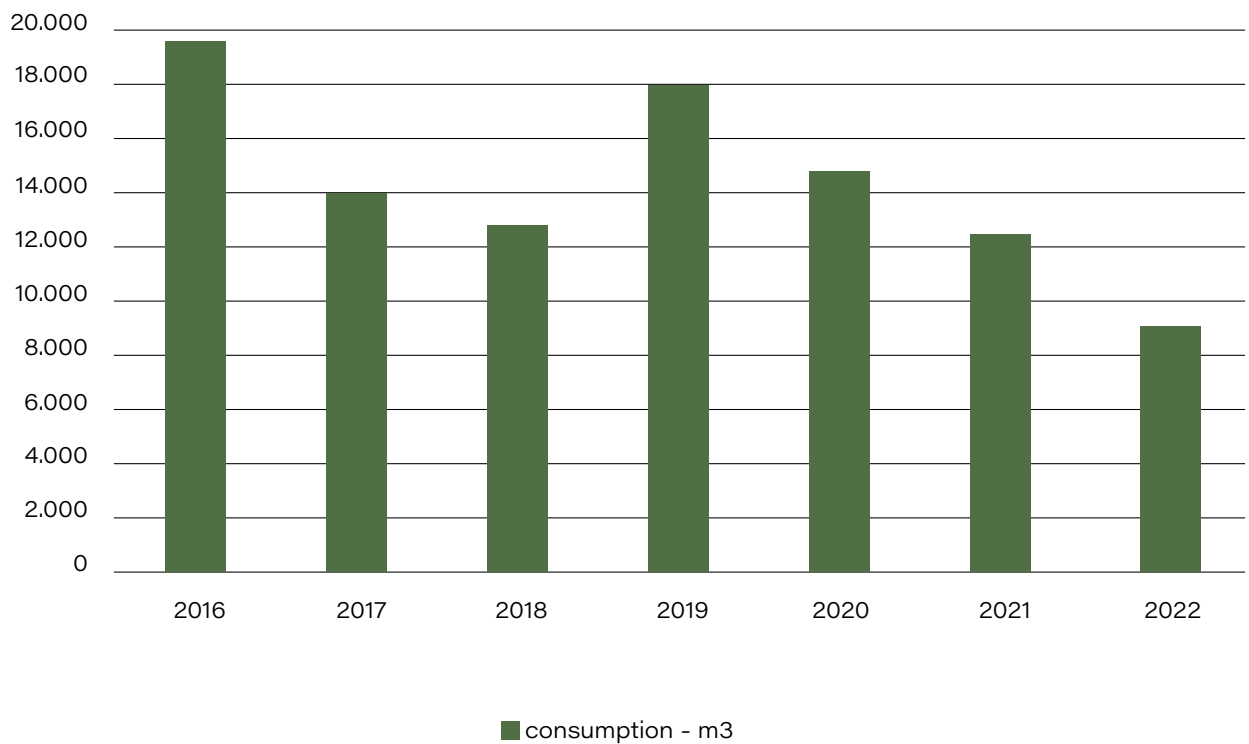


Figure 9

# . WATER EXTRACTION

## Water consumption data

2022

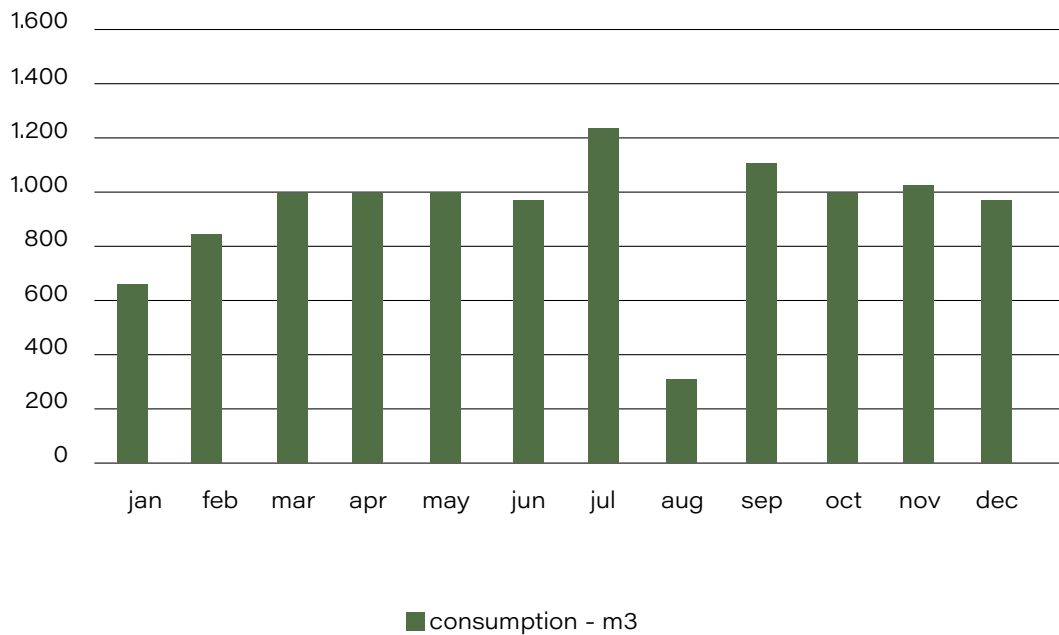


Figure 10

# .ELECTRICITY

## Electricity consumption data 2016 - 2022

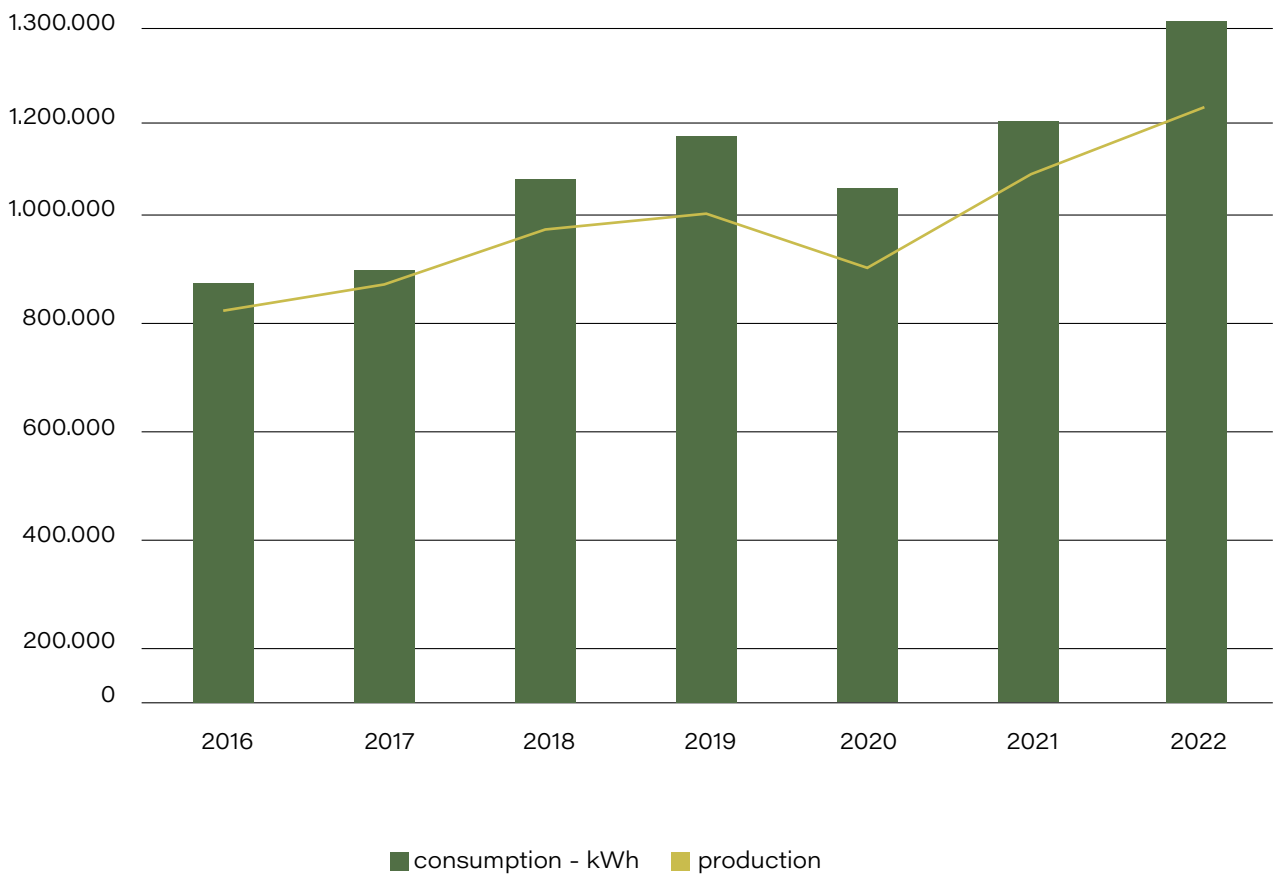


Figure 11

# .ELECTRICITY

## Electricity consumption data

---

### 2022

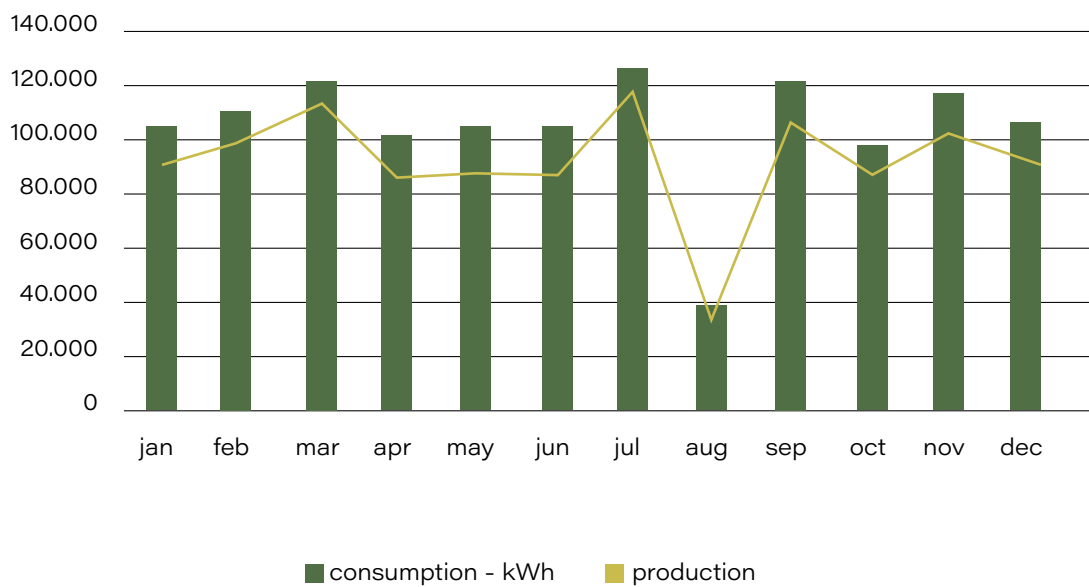


Figure 12

# . THERMAL ENERGY (METHANE)

## Methane gas consumption data - finalized production

### 2016 - 2022

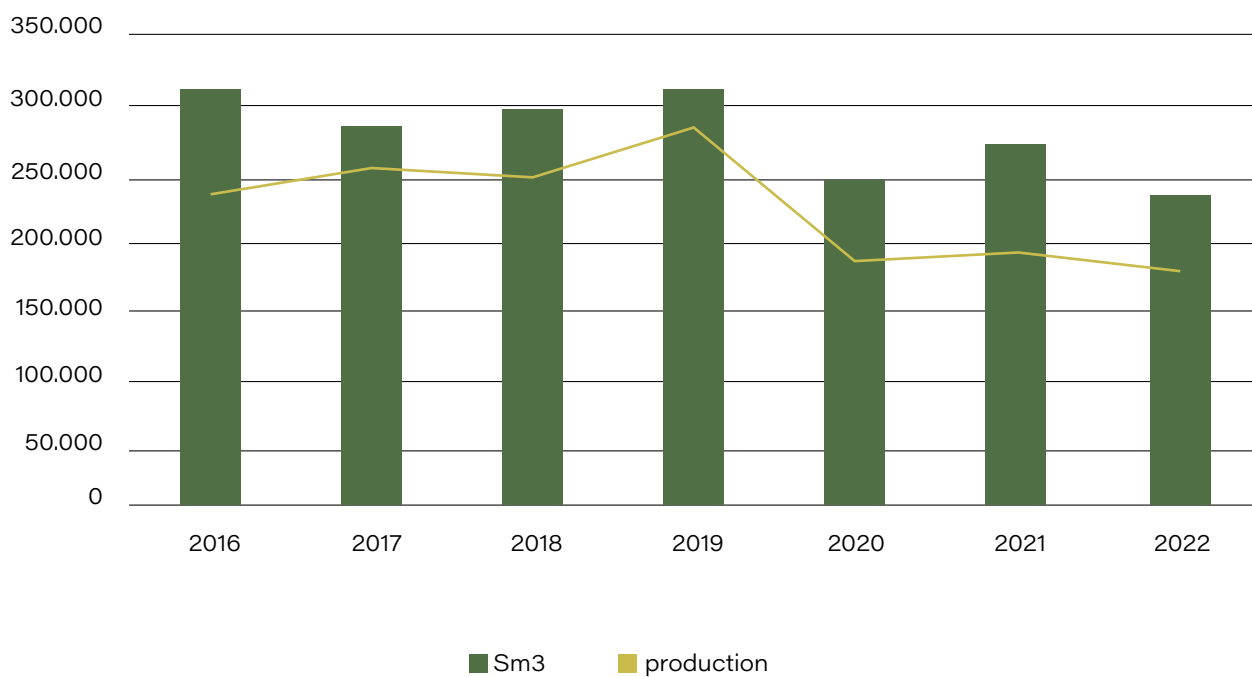


Figure 13



# . THERMAL ENERGY (METHANE)

## Methane gas consumption data - finalized production

2022

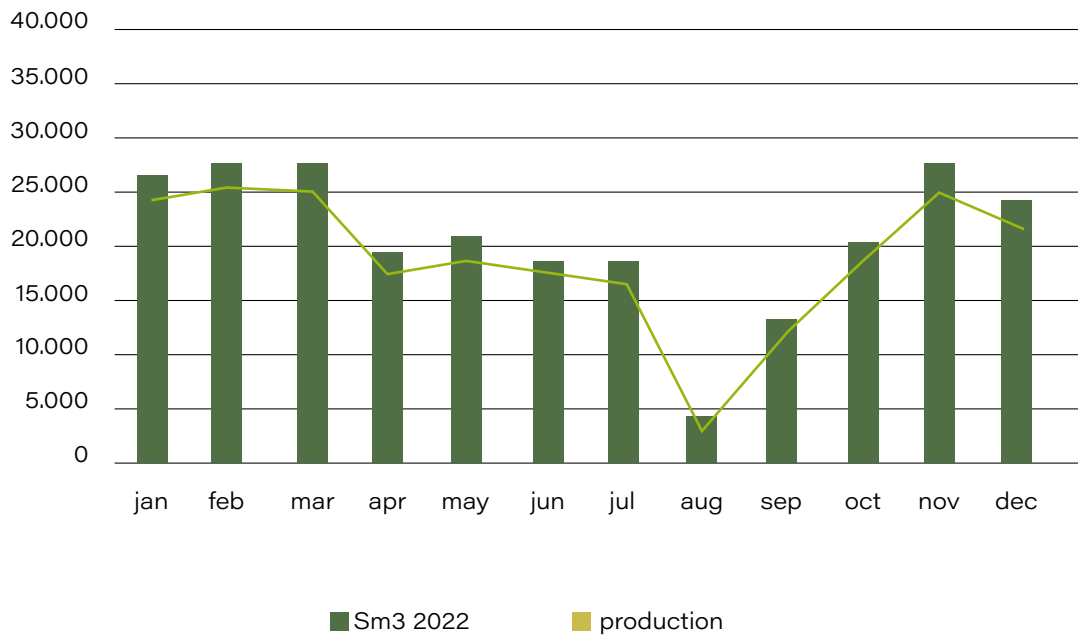


Figure 14

# . WASTE WATER

## Waste water analysis data - suspended solids

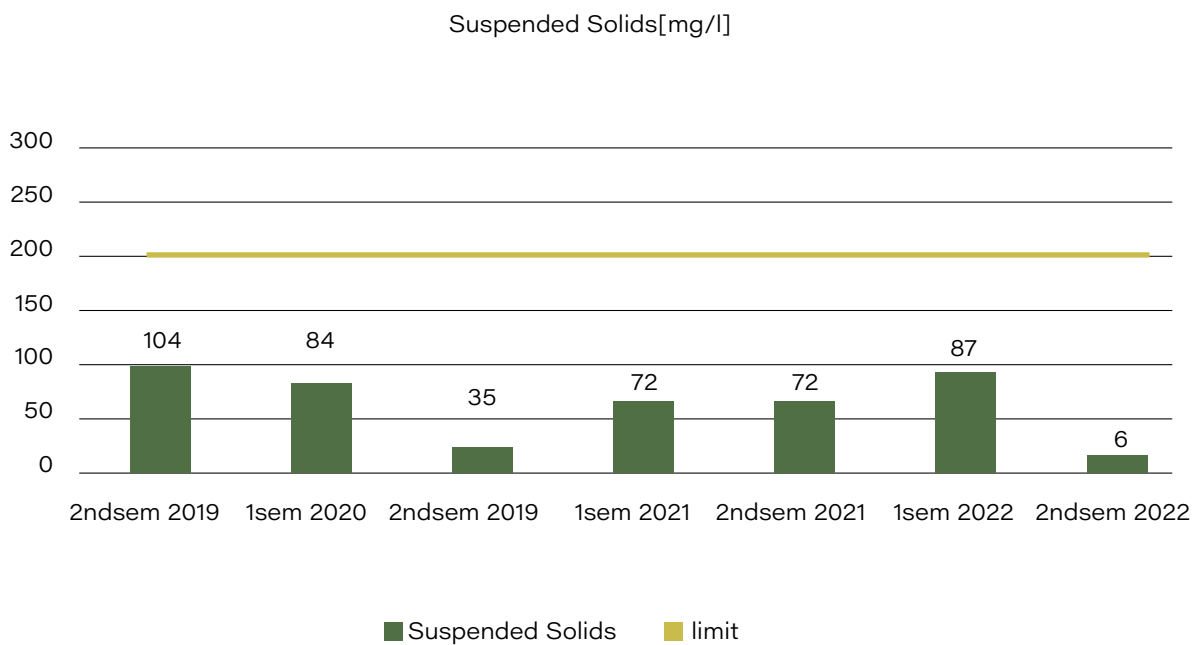


Figure 15

**. WASTE WATER**

**Waste water analysis data - total nitrogen**

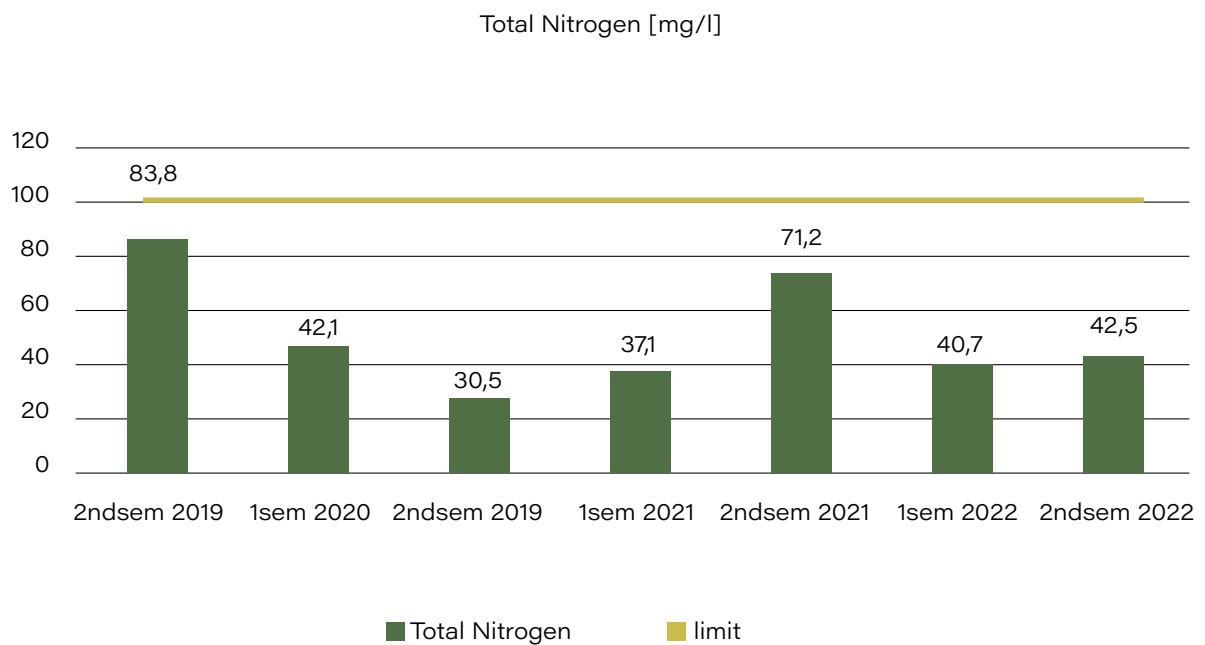


Figure 16

# . WASTE WATER

## Waste water analysis data - COD

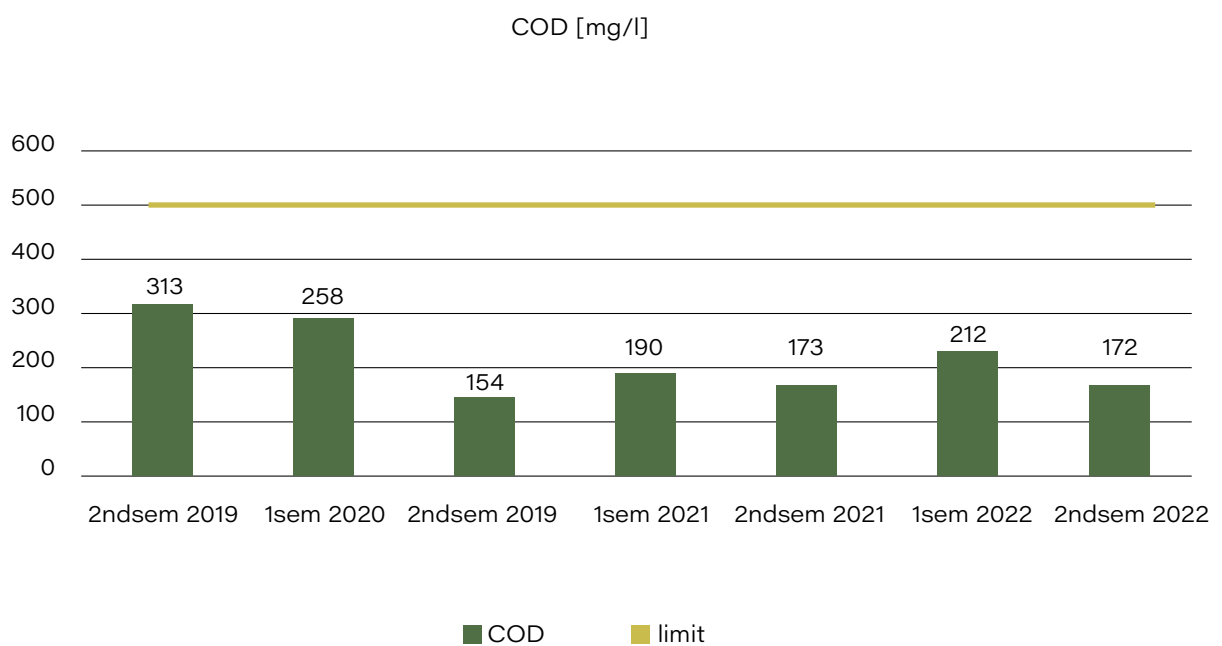


Figure 17

# . WASTE WATER

## Waste water analysis data - BOD

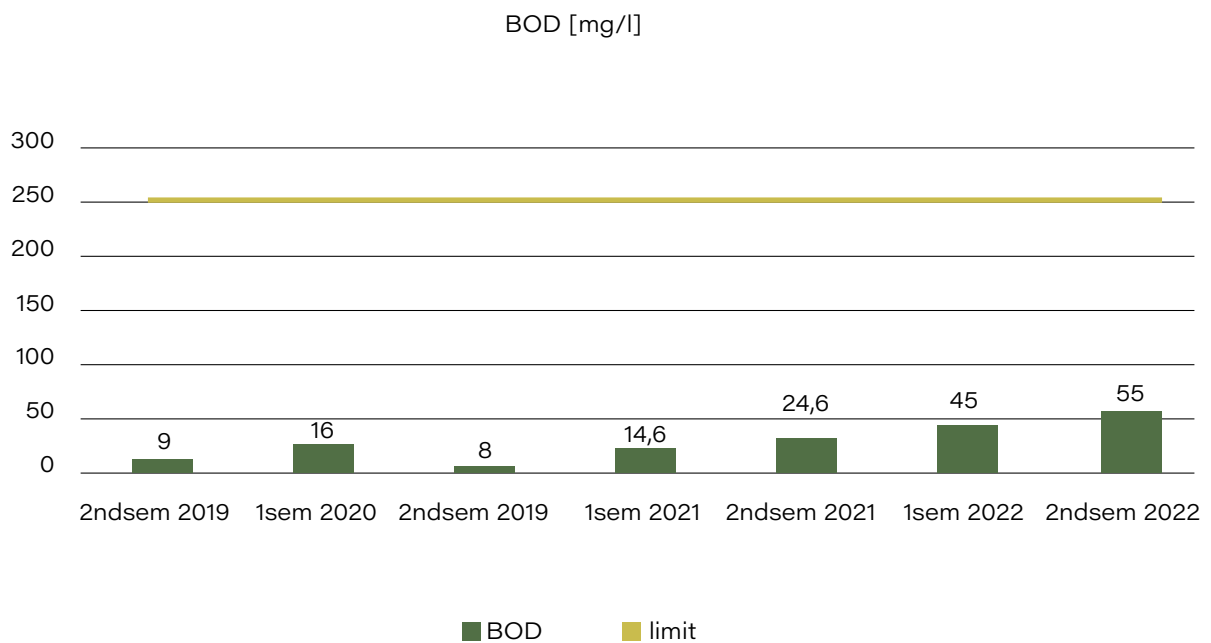


Figure 18

# .ATMOSPHERIC EMISSIONS

## Atmospheric emissions data - vaporization

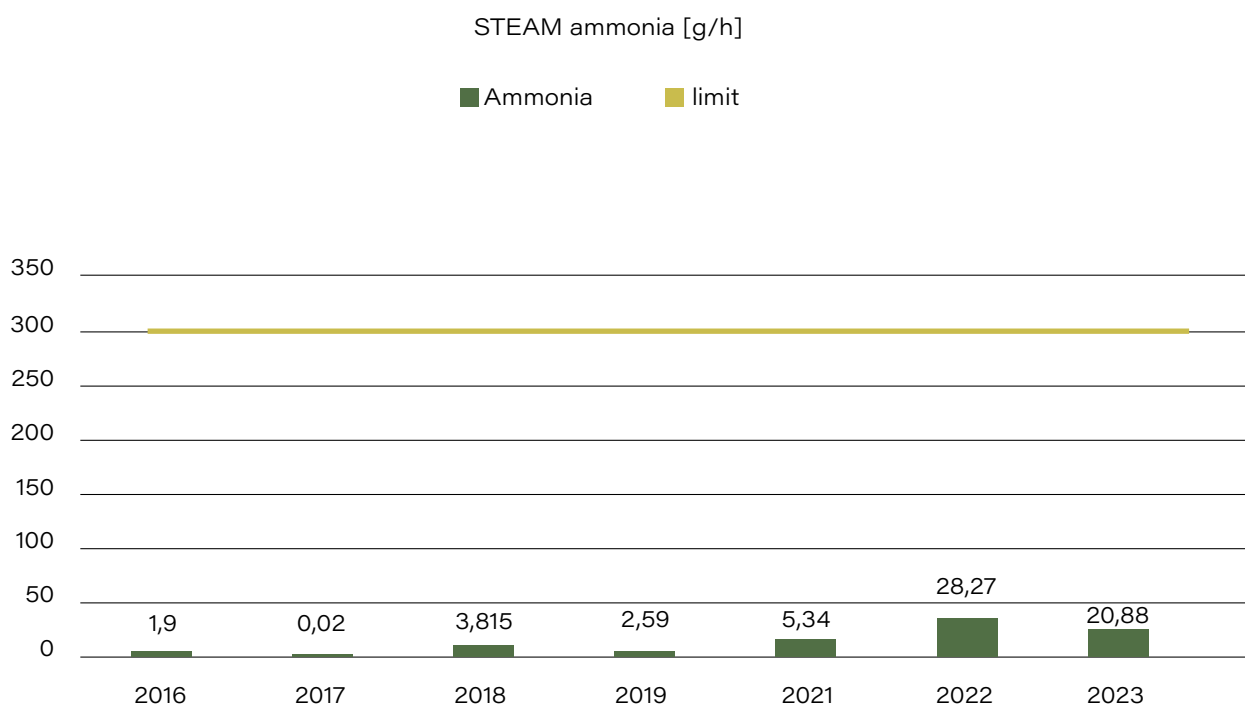
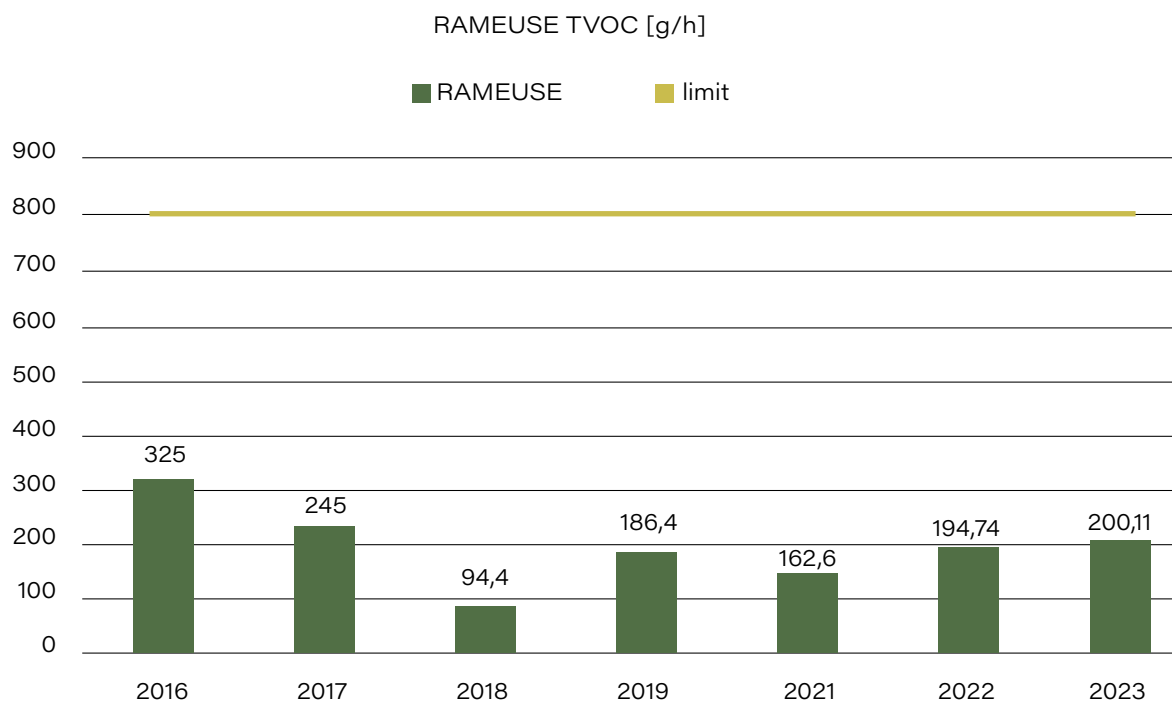


Figure 19

# .ATMOSPHERIC EMISSIONS

## Air emissions data - rameuse



COMMENTS: Confirmed, for both water discharges and atmospheric emissions the broadest compliance with the limits set by the current AUA.

NOTE: Sampling of boiler emissions was not carried out as the company's thermal plant falls within the scope of insignificant emissions according to art.272, paragraph 1 of Dlgs 152/06.

Figure 20



## PRODUCTION CYCLE and Controls

Also for this eighth edition, the audit of our activities by qualified and super partes entities was maintained according to the principles of ISO 9001.

These audits involved and affect the entire production and thus:

- **Controls on incoming fabrics**
- **Controls on internally manufactured fabrics**
- **Controls on dyes, chemicals, formulations**
- **Controls on the production process**
- **Controls on outgoing fabrics**

The goal is to offer all guarantees related to product quality, both for extensive and intrinsic properties, and thus ensure compliance with customer contracts or specifications and processing arrangements.

The data summarized below come from tests carried out by the AC-

CREDIA-accredited laboratory-Italian accreditation body-against UNI CEI EN ISO/IEC 17025:2005 (LAB No. 0045), but also from other laboratories accredited according to ISO/IEC 17025 in the international circuit.

The following pages show graphs and evaluation of the data collected from the analyses performed on finished and raw Fabrics and chemicals used in processing.

In addition to those shown below, additional chemical analyses were performed in the period 2022/2023 in order to ensure the effectiveness of production processes and the safety of products, such as the determination of organotin compounds, poly and perfluorinated compounds, chlorophenols and some glycols.

The results were overwhelmingly positive and only in very rare cases showed the presence of traces of compounds at concentration levels close to the quantification limits of the analytical methods.



## Parameter being monitored: alkylphenol ethoxylates (APEOs)

These are environmentally hazardous surfactants because some of their degradation byproducts are bioaccumulative and toxic to aquatic organisms.

### Alkylphenol ethoxylates (APEOs)

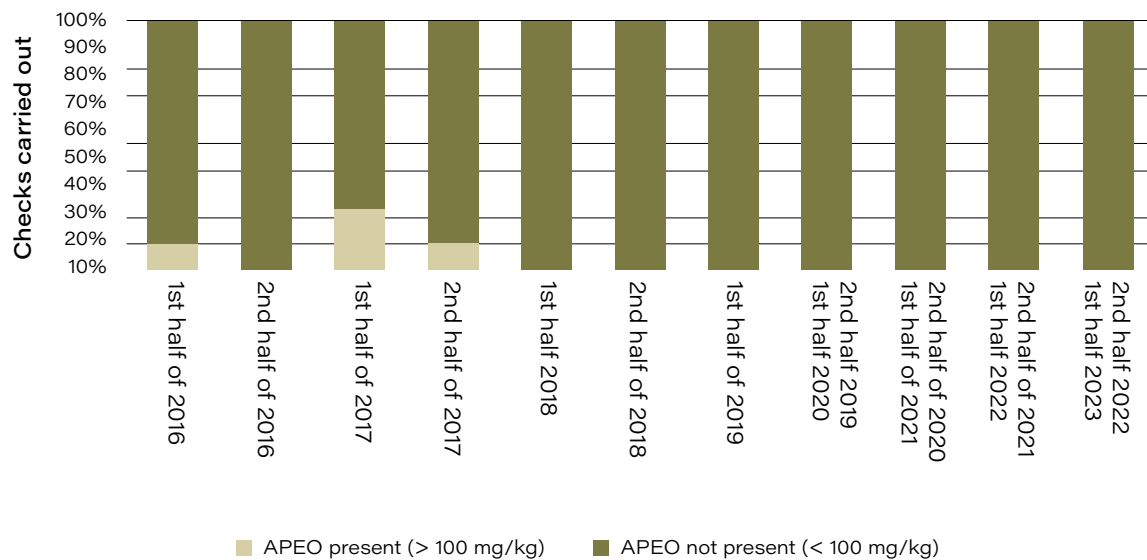


Figure 21 - Analysis of finished products (output) -% samples negative for the presence of APEOs

### Average APEO content (2017 - 2022)

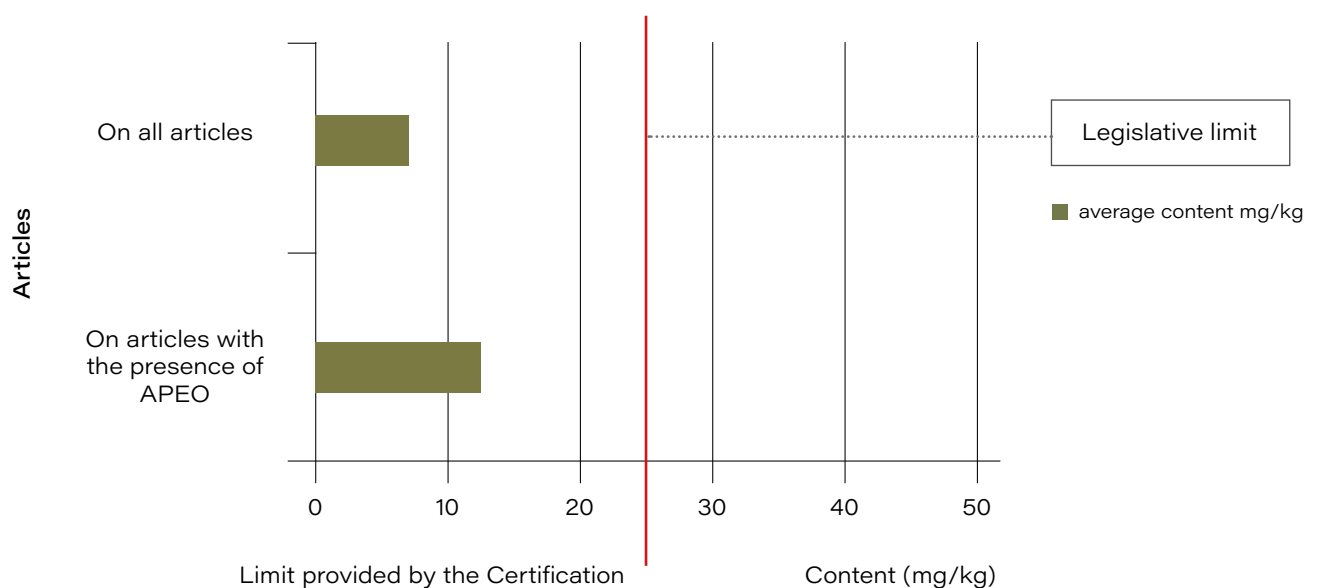


Figure 22 - Analysis of finished products (output)-average content in mg/kg of APEO

## Parameter subject to control: aromatic amines derived from azo dyes

These are 24 degradation (reductive cleavage) compounds of some azo dyes, which are dangerous as carcinogens and restricted by various international regulations.

The average concentration relative to the content of APEO on all articles tested was 2.9mg/kg, thus below the limit set by the PRSL (Product Restricted Substances List) of the 4Sustainability® Certification (15 mg/kg) and well below the lawful limit imposed, as of February 2021, by REACH Regulation No. 1907/2006, which will be 100 mg/kg for nonylphenol ethoxylate.

Among the positive samples over the past 4 years, in only 1 case was the 15 mg/kg limit exceeded and none exceeded the legislative limit; in fact, the average relative to APEO content for only those samples that tested positive was 8.34 mg/kg overall.

Thus, there is maintenance of compliance consistent with previous years toward improvement, as is evident from Figure 22: the average APEO relative to positive samples in 2016-2017 (first half of the year), excluding one case that was dealt with, that was 35 mg/kg, while since 2017 no positive findings above 100 mg/kg and in any case below 25 mg/kg have been found. The positive findings encountered in recent years are low concentration traces due to contamination.

### Aromatic amines

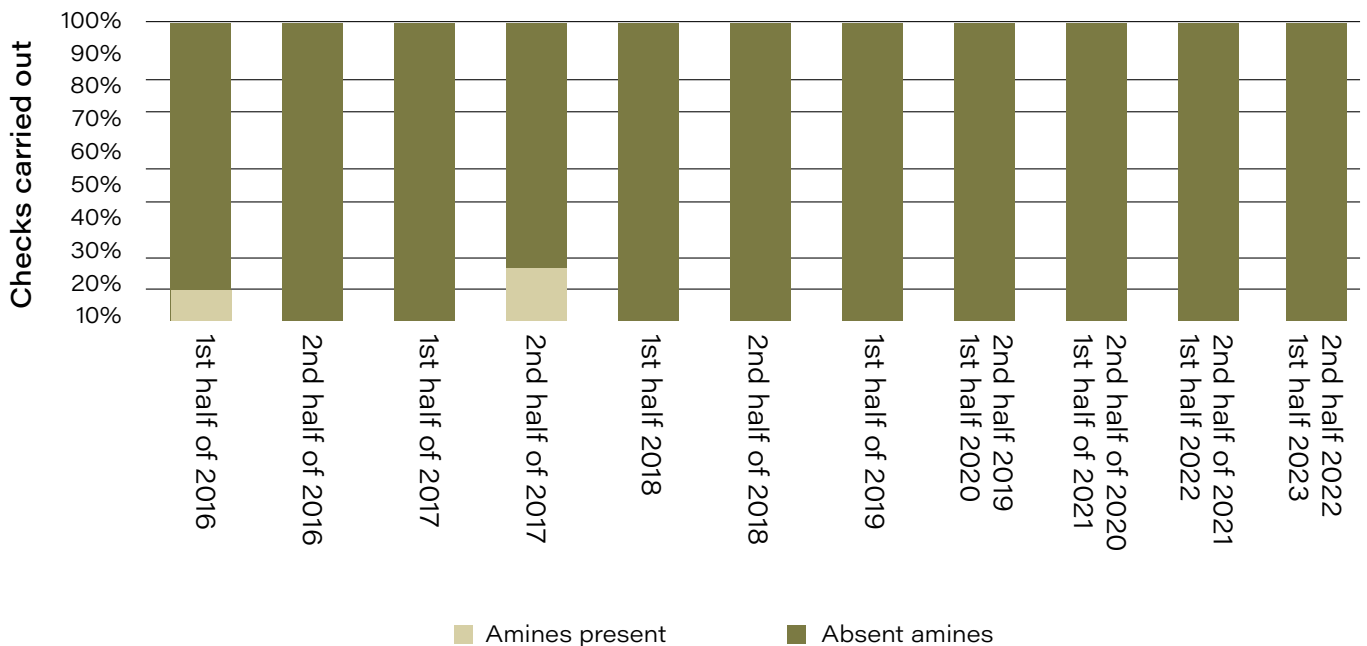


Figure 23 - Dye analysis (input) and finished textile products (output) - % samples negative for the presence of arylamines

The limit on how to quantify of the European analytical method for measuring aromatic amines is commonly set at 5 mg/kg. Laboratories with new technologies manage to reduce this limit, which in the last two years was 2 mg/kg.

The graph below shows starting from the second half of 2016, arylamines have not been detected in any of the analyzed products in concentrations above the set limit.

### Aromatic amines content

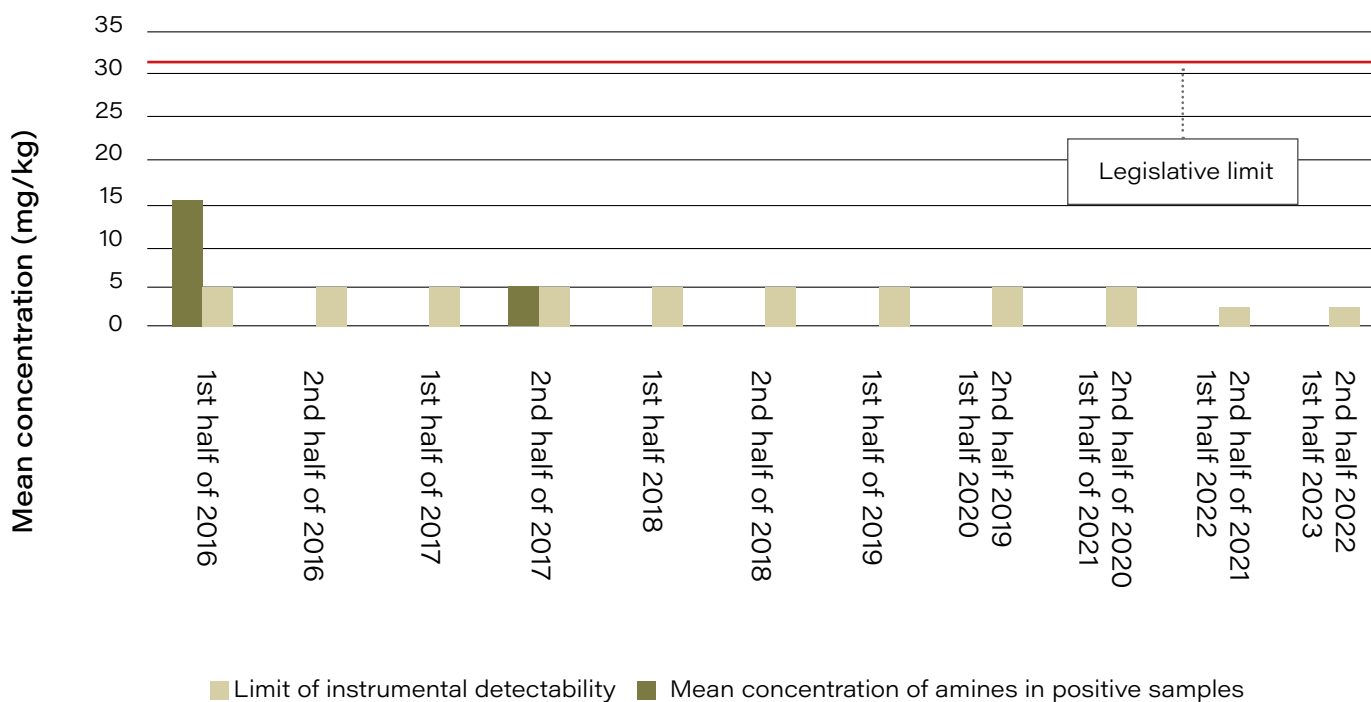


Figure 24 - Analysis of finished textile products (output) - average content of arylamines in positive samples

## Parameter subject to control: free formaldehyde

It is a newly classified carcinogen, which is widely used even though it has been restricted by various international regulations.

The generally accepted limit of quantification below which the method has a very high uncertainty is on average 16 mg/kg, although a laboratory can provide estimated concentration values above 3 mg/kg.

In 2023, a few positive findings were found to be absolutely non-significant, with an average of less than 16 mg/kg, showing a marked improvement over previous years in which positive findings were found. This is however well below the legislative limit of 75 mg/kg.

### Formaldehyde

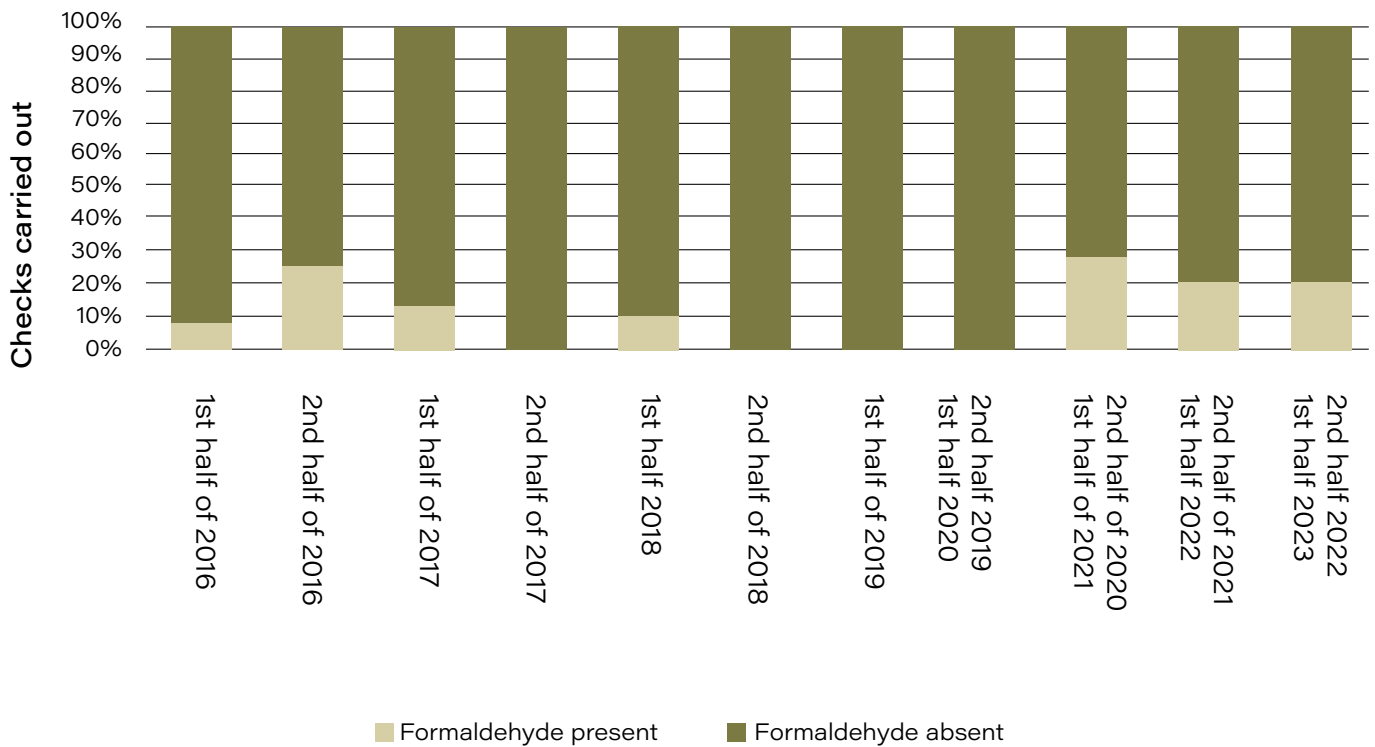


Figure 25 - Analysis of finished textile products (output) - % samples negative for the presence of formaldehyde.

## Formaldehyde content

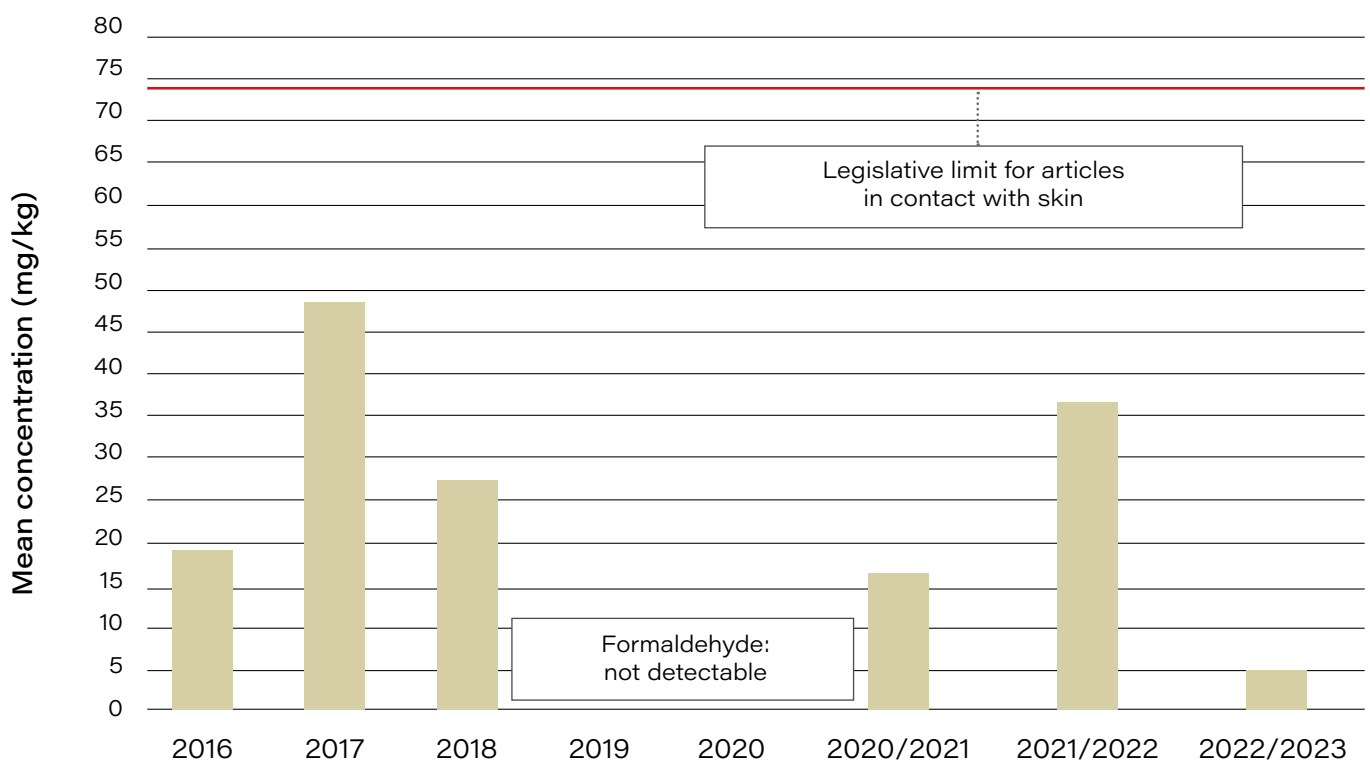


Figure 26 - Analysis of finished textile products (output) - average formaldehyde content in positive samples.

*L. Verga. Como*



# 05

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## ETHICAL AND SOCIAL CONDUCT

*L. Verga. Como*

## ETHICAL AND DEONTOLOGICAL CODE

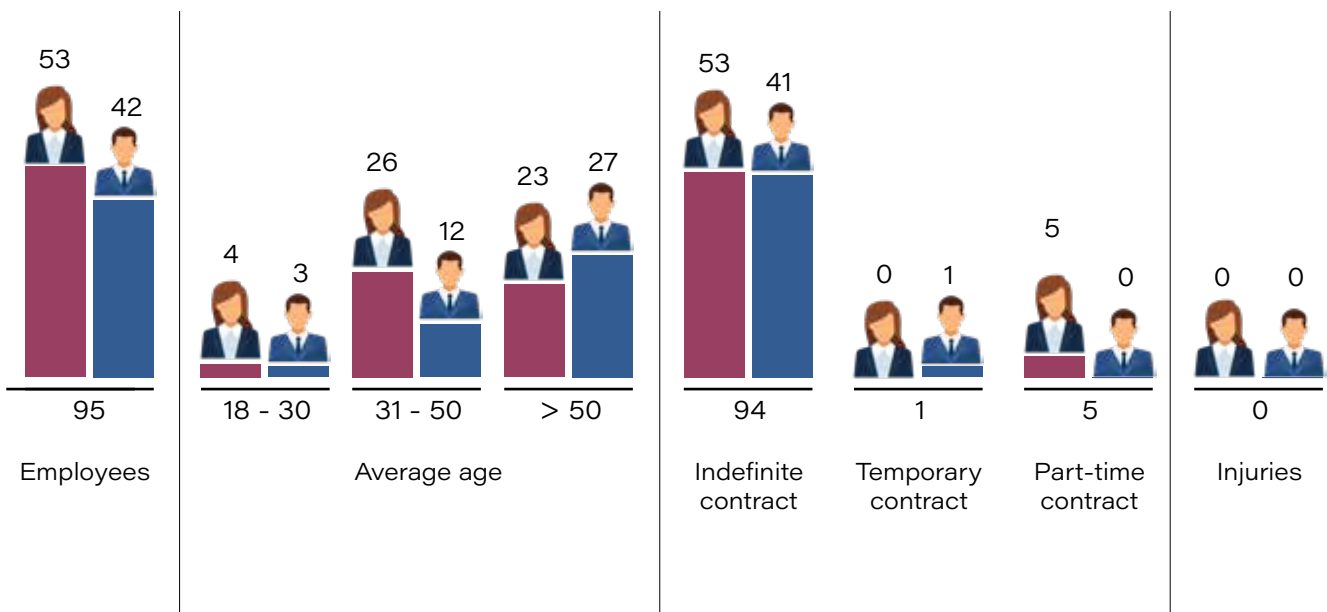
All employees and contractors agree to refrain from the following behaviors as they are recognized as unfair:

- imitation or exploitation of others' designs or patents;
- exploitation, counterfeiting or imitation of trademarks and/or distinctive signs of others;
- exploitation, counterfeiting or imitation of labels;
- untrue statements about the origin or composition of the product.

To further reinforce these behavioral principles, we adhere to the following policies:

- use of designs designed in-house by its own Style Office;
- guarantees about the ownership of the design in cases where these are purchased from other studios;
- prompting suppliers that contribute to defining the origin of the fabric (design studios, weaving mills, dyeing and printing houses) of similar behavior.

## Personnel data year 2022







## CODE OF SOCIAL CONDUCT

Likewise, in an expression of commitment to building a system that respects workers' rights, the company has adopted, and requires its suppliers, to adhere to the following code:

- **comply with the workers' statute,**
- **employ the industry's collective workers' agreement and bring its contents to the attention of its employees upon renewal of the agreement,**
- **comply with current legal regulations regarding the use of overtime,**
- **use equipment with appropriate safety measures,**
- **equip and train workers in the use of protective safety equipment and gear,**
- **not hire personnel younger than the mandatory age,**
- **recognize the right of workers to form and join trade unions,**
- **recognize the right to bargaining,**
- **define workers' duties and responsibilities,**
- **employ workers without any discrimination of race, sex, individual characteristics, religious belief, political opinion or social origin,**
- **prohibit forced labor in any way,**
- **accommodate and evaluate any proven complaints by staff related to workers' rights.**

It is also meant to highlight how any conduct aimed at altering or counterfeiting as well as using nationally or foreign recognized trademarks is forbidden by the company.

All the resources of Tessitura Stamperia Luigi Verga S.p.A. are therefore committed to sustainable development by preserving the resources both of its territory and its people.

*Attached facsimiles of the sustainability policy communication (two-page document).*

## Weaving and Printing Plant Sustainability Policy

Environmental and social responsibility

Growth and sustainability are what we want to set us apart, establishing our strategies on the belief that ethics and profit cannot be at odds, as there can be no long-term economic development disconnected from social and environmental development.

Inspired by and aligned with the Sustainable Development Goals, we are committed to helping generate positive change globally by taking clear environmental and social responsibility.

### ENVIRONMENTAL RESPONSIBILITY

**Tessitura e Stamperia Luigi Verga S.p.A.** aims to reduce the environmental impact resulting from its activities by adopting an approach oriented towards monitoring and continuously improving performance, starting by complying to current regulations with a constant focus on innovation, research and development.

With the view to reducing its environmental impact of the finished product delivered to customers, Tessitura e Stamperia Luigi Verga S.p.A. wants to constantly reduce the emission of pollutants in the production process, and therefore in the environment, making sure that it stays within the ever more restrictive limits of chemical substances that are hazardous to humans and the environment.

Fully aware that the implementation of sustainability goals is only possible when all parties work as one, we constantly seek to partner with entities that share the same values and attention to the protection of the environment and of its people as well as being projected into the future.

#### **Tessitura e Stamperia Luigi Verga S.p.A. has therefore defined the following macro-objectives for reducing environmental impact:**

- Implement a chemical risk management system aimed at reducing the environmental impact of the use of chemicals harmful to humans and the environment in production processes and throughout the production chain by implementing MRSL ZDHC - technical knowhow on the subject permitting,
- Ensure the constant monitoring as well as improving the quality of wastewater connected both directly and indirectly to our production,
- To inform and train employees on the activities carried out by the company in the field of sustainability through regular meetings in order to stimulate research and innovation;
- pursue legislative compliance by constantly communicating with partners and suppliers that share the same values and strategic goals, and are capable of responding to increasingly challenging market demands;
- Adopt state-of-the-art management techniques and tools aimed at continuous performance improvement in sustainability;
- Regularly share achievements and goals with stakeholders;

- Manage waste from the production process in a proper and conscientious manner; prioritizing district partners in order to minimize the environmental impact relating to the movement of materials along the production cycle;
- Give preference, where possible, to raw materials with lower environmental and social impacts, such as certified recycled or regenerated raw materials that are tracked and traceable, organic and/or linked to sustainable initiatives;
- To consider the environmental impact of our activities when designing a collection from a sustainable/circular design perspective;
- Seeking production and organizational solutions to ensure greater efficiency of the production processes in order to reduce and/or minimize energy and water consumption and CO2 emissions into the atmosphere;
- Seeking and favoring solutions to reduce waste and/or increase reuse and recycling practices;

In view of the above goals, we decided to focus our efforts to address issues relative to risk assessment and management from the use of chemicals in a systemic manner by adopting the Chemical Management 4sustainability® Protocol, which implements MRSL ZDHC ([www.roadmaptozero.com](http://www.roadmaptozero.com)). Its regulated method, monitors the supply chain, and regularly measures the level of implementation transparently.

## SOCIAL RESPONSIBILITY

Within the ethical and social spheres, Tessitura e Stamperia Luigi Verga S.p.A. is committed to upholding workers' rights according to the Universal Declaration of Human Rights and to adhering to the International Labor Organization (ILO) regulations, national legislation and the regulations set by national workers contract regarding:

- **Freedom of association and the right to collective bargaining**
- **Child labor**
- **CUnderaged labor**
- **Forced labor**
- **Health and Safety**
- **Prevention of all discrimination and abuse**
- **Transparency in employment contracts, keep records of working hours, paying salaries in a timely fashion**

The company also prioritizes collaborative relationships with partners that pursue the same social objectives in compliance with applicable regulations, verifies, wherever possible, the proper application of the aforementioned standards within partner companies.

The company is therefore active in spreading all the contents of this policy within its organization, so that it is known and pursued at all levels. Likewise, all tools have been positioned to promote this information to third parties with whom the company comes into contact. Customers and suppliers are the main targets, as they are directly linked to the manufacturing cycle, but also pertinent associations, communities and public institutions, in order to increase awareness on sustainability.

## Collaborations

Luigi Verga S.p.A., supports and creates partnerships to promote and help activities and schools.

Below are the ongoing collaborations implemented:

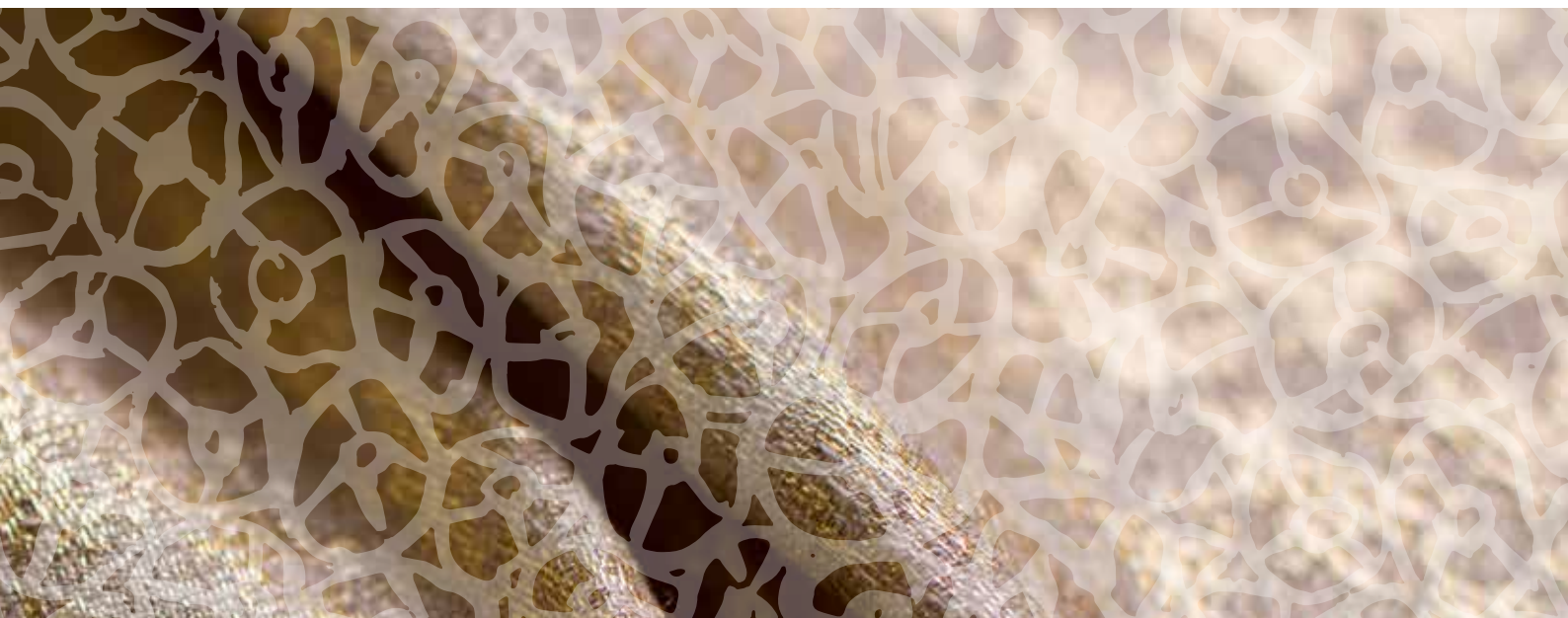
- Rome Fashion Costume Academy
- We offer internships to young people and support them with their theses
- Alternate school-work internships with Setificio and other high schools
- Aldo Galli Academy of Fine Arts

## Welfare

“CartAzienda Unindustria” providing agreements with stores and facilities in the Health Care industry WITH SANIMODA.

Reserved parking spaces are available for staff, and a walkway to get to the company is under construction (worker safety).







## QUID Project Premio "Molletta d'oro" The Golden Clothespin Award



## WHERE THE FASHION SUPPLY CHAIN ENDS, OUR DESIGN AND PRODUCTION PROCESS BEGINS.

### *The Quid Project*

Fashion is just one way to change the world; we want to inspire others to become part of a broader change.

This is how we do it: each of our collections is created by acquiring surplus fabrics from prestigious fashion and textile companies.

In a world that produces at unthinkable speeds, we back the idea of recycling, upcycling, and reducing waste.

Surplus stock does not last forever, which is why our garments are often made in limited quantities. Fashion not only transforms the wearer, but it also transforms the maker.

In our workshops, we offer employment and training opportunities to those most at risk of being excluded from jobs in Italy, especially women. This is why, to change our work culture, we started with the fashion industry.

For ten years we have been collaborating with the Quid project, which helps women in need.

The Quid project consists of recovering fabrics no longer used by textile companies and giving them a new life, with collections that are then put up for sale.

Thanks to our efforts, we were awarded the first ever the Molletta D'oro award, a recognition for those who supported and shared with The Quid Project the idea and will to redesign society, fashion and the economy.

L. Verga Como





# 06

FINAL NOTES

*L. Verga Como*

## Final notes

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It's like drawing a comparison between classical and rock music. Regardless personal preferences, the former never manages to just be noise, while rock does.

A few years back, when we began the arduous journey of sustainability, we envisioned textile production being sustainable and with as little environmental pollution as possible, we perhaps made some noise: there was a lack of organization, and some interlocutors were missing.

Today that noise is silent.

It is certainly not an enchanted garden, nor is there the presumption of having reached our final destination, but we hope that the steps we have undertaken have "shaped" both us and those with whom we collaborate with, allowing for pleasant and discrete music, even beyond all intents.

It is not a protocol rule, but a *modus vivendi*.

*Bulgorello di Cadorago, June 2023*



Certified by ICEA  
ICEA - TX - 1544

**Istituto per la Certificazione Etica e Ambientale - ICEA**  
Via Giovanni Brugnoli, 15  
40122 Bologna - Italy

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**Process Factory** - Via A. Da Noli 4/6  
50127 Florence - Italy

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**Clean By Design** - 10 Avenue Roche  
75008 PARIS  
France

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**SMI - Sistema Moda Italia**  
Viale Sarca 223, - 20126 - Milan - Italy

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**Associazione Tessile e Salute**

**Associazione Tessile Salute**  
Corso G. Pella 2 - 13900 - Biella - Italy

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*L. Verga Lomo*

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