

Fiber Traceability Across Different Types

Analyzing Declaration Requirements for multi fibers

Embarking on the journey

This comprehensive guide is meticulously designed to enlighten stakeholders on the intricate strategies and considerations crucial for the successful implementation of global traceability initiatives. Collaborating with GI, businesses can streamline their allocation of time and resources, placing a premium on the adoption of effective traceability practices. Join us on this expedition through the intricacies of global traceability, carving a path toward a connected and resilient future, with GI as your unwavering ally.

This exploration will encompass an insightful overview of common fibers, delve into the nuanced aspects of understanding declaration requirements on the GI platform, and provide guidance on the simultaneous tracing of mixed materials within a single order, offering a holistic perspective on navigating the dynamic realm of global traceability.

Introduction

Textile Solutions innovates at the intersection of tradition and technology, uniting decades of manufacturing experience with cutting-edge IT. As a leader in Supply Chain Traceability, Sustainability Certification, and Carbon Footprint Management, General Intelligence harmonizes craftsmanship and digital expertise, driving efficiency and sustainability for suppliers through technology. We navigate the textile landscape, shaping a future where sustainability, compliance, and efficiency seamlessly coexist.

Company Overview

- **Innovative Compliance for the Textile Landscape**
Our proprietary **All-in-One** platform serves as the nexus for compliance, seamlessly consolidating various requirements.
- **AI Empowered Solutions**
Textile Solutions is underpinned by integration, automation, Artificial Intelligence (AI), and block chain – collectively forming the backbone of our innovative solutions.
- **Mitigating Compliance Risks**
End-to-end traceability ensures compliance with various standards while reducing risks in key markets.

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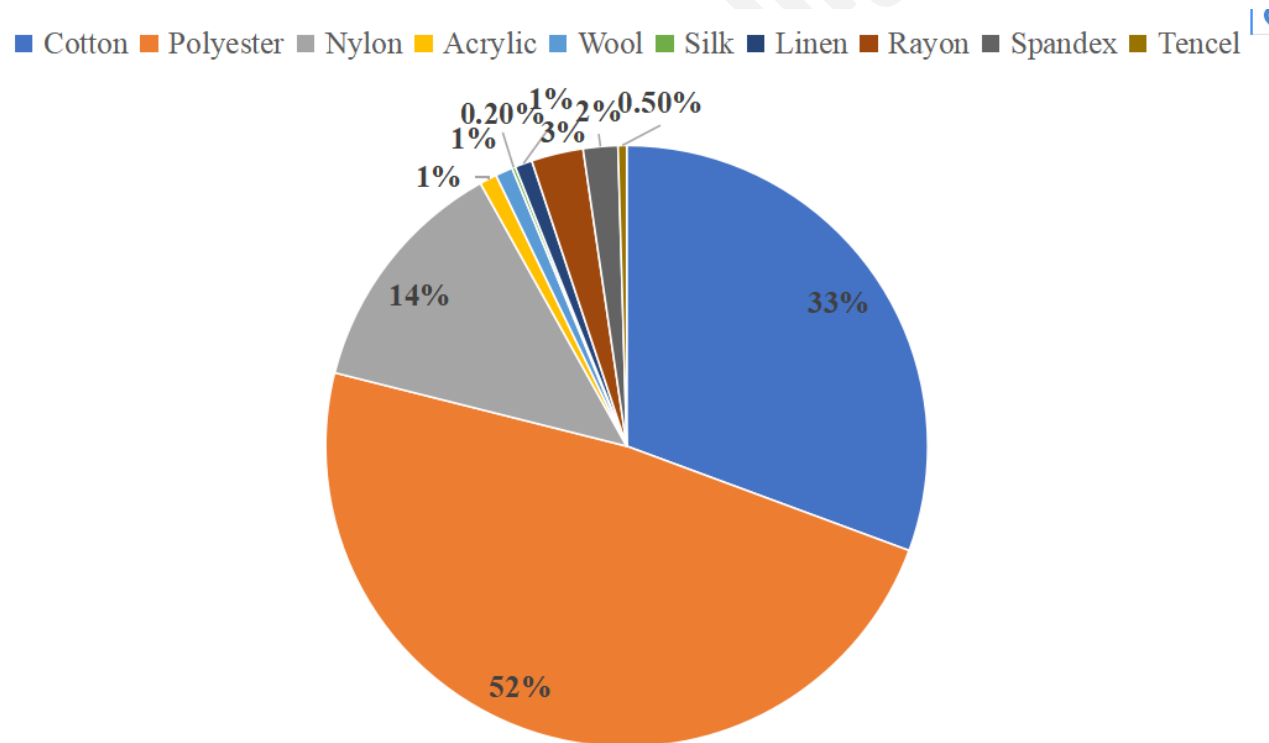
An Overview of Common Fibers

Introduction

In the vast world of textiles, various fibers contribute to the diverse array of materials used in clothing, furnishings, and other textile products. Understanding the characteristics of different fibers and fabrics is crucial for making informed choices in design, fashion, and manufacturing. Here, we provide a concise overview of some common fiber and fabric types.

Common Fibers

Common fibers along with the market shares



1.Cotton

Natural fiber derived from cotton plants.
Soft, breathable, and absorbent.
Widely used in casual wear and undergarments.

3.Nylon

Synthetic fiber known for its strength and elasticity.
Used in activewear, hosiery, and various types of apparel.

5.Silk

Produced by silkworms, silk is a natural protein fiber.
Known for its smooth, luxurious feel and natural sheen.
Often used in high-end fashion and accessories.

7.Linen

Natural fiber derived from the flax plant.
Lightweight, breathable, and often used for summer clothing.

2.Polyester

Synthetic fiber made from petroleum-based polymers. Durable, wrinkle-resistant, and quick-drying.
Often blended with other fibers for improved performance.

4.wool

Natural fiber from sheep's fleece.
Provides insulation, warmth, and moisture-wicking properties.
Commonly used in cold-weather clothing.

6.Rayon

Semi-synthetic fiber made from cellulose.
Mimics the feel of natural fibers and is versatile in its applications.

8.Spandex

Synthetic fiber known for its exceptional elasticity.
Commonly blended with other fibers to add stretch.

9. Acrylic

Synthetic fiber with a wool-like feel. Used as a cost-effective alternative to natural fibers.

10. Tencel

A brand of lyocell, a sustainable and eco-friendly fiber derived from wood pulp. Used in various clothing items.

These are just a few examples of the diverse fibers and fabrics available, each with its own unique properties and applications. Understanding the characteristics of these materials enables designers and consumers to make informed choices based on comfort, durability, and style.

General Intelligence

Understanding Declaration Requirements on the GI Platform: A Comparative Analysis of Cotton and MMC Fibers

Introduction

The General Intelligence (GI) platform serves as a comprehensive hub for managing and declaring various fibers. Among the plethora of fibers listed, including ACRYLIC, COTTON, POLYESTER, LINEN, WOOL, OTHER FIBER, RECYCLED COTTON, TENCEL, VISCOSE/RAYON, POLYPROPYLENE, NYLON, MODAL, and SILK, Cotton and Man-Made Cellulosic (MMC) fibers stand out. Each fiber type comes with distinct declaration requirements. In this article, we explore the disparities in declaration procedures between Cotton and MMC fibers, shedding light on the additional documentation needed for the MMC category, which includes fibers like Viscose, Modal, Lyocell, and Acetate.

Cotton Declaration Requirements

Cotton, a staple in the textile industry, has its specific declaration requirements on the GI platform. Typically, declarations for Cotton involve providing information such as fiber content percentage, country of origin, and compliance with industry standards. Supporting documents may include Certificates of Origin, production record, and other relevant documentation confirming the quality and origin of the Cotton fiber.

MMC (Viscose, Modal, Lyocell, Acetate) Declaration Requirements

The MMC category encompasses a range of man-made cellulosic fibers, each with unique properties. Unlike Cotton, the declaration requirements for MMC fibers on the GI platform extend beyond the basic details. Specifically, for MMC fibers, additional documentation from Pulp L4 Supplier is mandated:

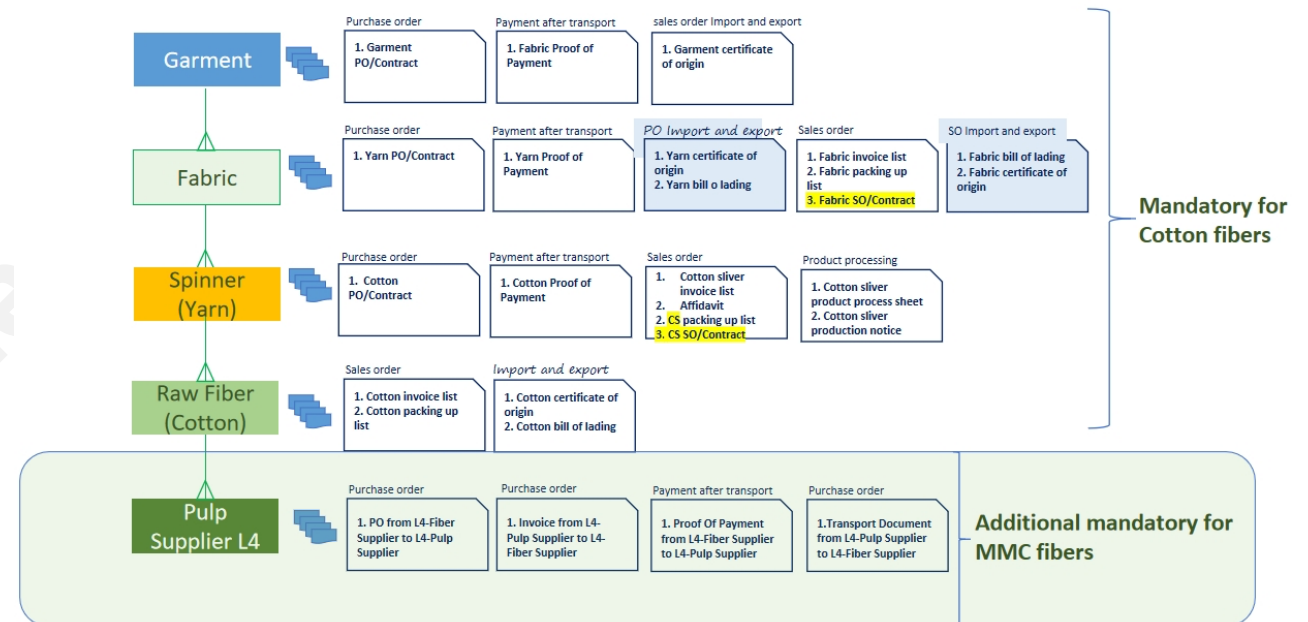
Pulp L4 Supplier Uploads:

- Purchase Order (PO) from L4-Fiber Supplier to L4-Pulp Supplier.
- Invoice from L4-Pulp Supplier to L4-Fiber Supplier.
- Proof Of Payment from L4-Fiber Supplier to L4-Pulp Supplier.
- Transport Document:

Submission of a Transport Document from L4-Pulp Supplier to L4-Fiber Supplier.

These supplementary documents play a crucial role in ensuring transparency and traceability in the supply chain, addressing the unique characteristics of MMC fibers. By necessitating the submission of documentation related to the pulp supply chain, **the GI platform aims to enhance the verification process and provide a comprehensive overview of the journey of MMC fibers from their origin to the final product.**

Requirements in GI Platform: A comparison between Cotton and MMC



Conclusion

In summary, while both Cotton and MMC fibers find their place on the GI platform, the declaration requirements differ significantly. Understanding these distinctions is pivotal for industry professionals and stakeholders involved in the textile supply chain. As the textile landscape continues to evolve, platforms like GI contribute to the standardization and transparency of fiber declarations, fostering trust and accountability in the global textile industry.

General Intelligence

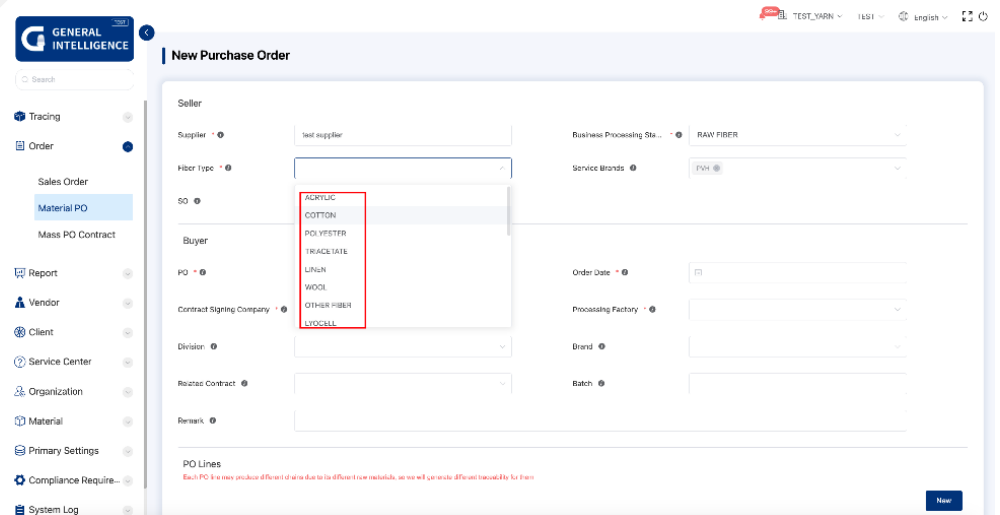
How to trace mixed materials simultaneously in a single order on the GI platform

Introduction

The General Intelligence (GI) platform offers a comprehensive solution for tracing and declaring various fibers in the textile supply chain. This article outlines a structured approach to achieving traceability for mixed raw materials within a single order on the GI platform. The process involves yarn mills placing raw material orders, brand customization of declaration requirements, individual product declaration at each level, and brand-specific visibility during the traceability process.

Yarn Mill's Raw Material Order Can Choose Multiple Fibers

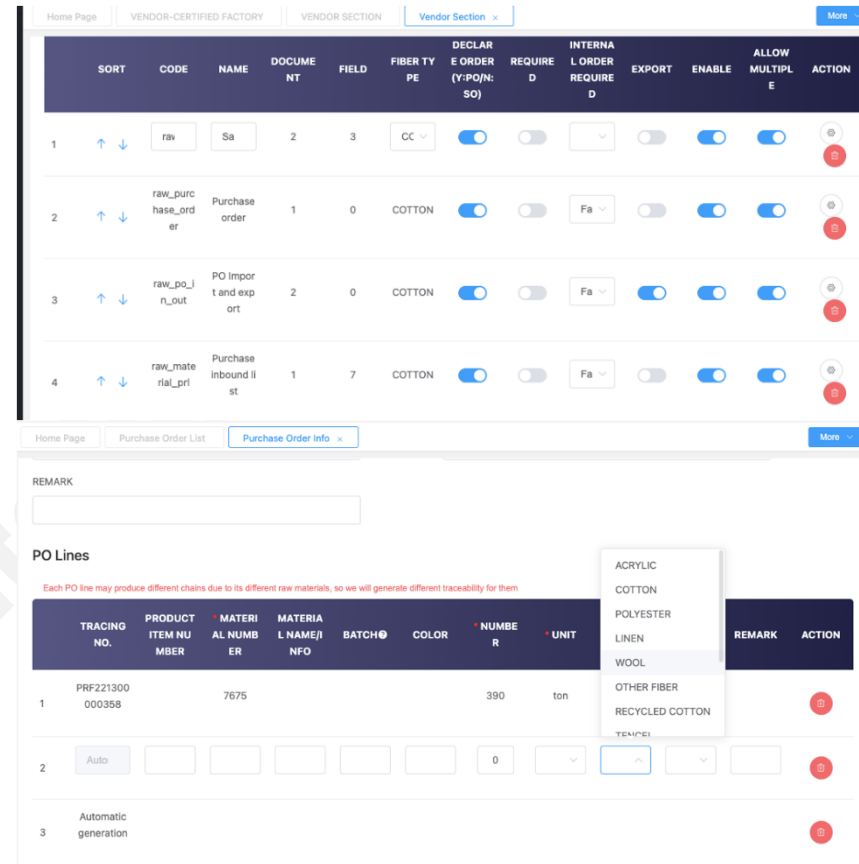
Yarn mills can now place orders for raw materials with the flexibility to select multiple fibers in a single order. This feature streamlines the procurement process, allowing for the creation of a diverse range of yarns.



GI platform sample on choosing multiple fibers

Brands can set different declaration requirements for various fibers

Brands have the flexibility to set distinct declaration requirements based on different fibers. For instance, a brand may choose to implement specific documentation or compliance criteria for each fiber type, ensuring tailored traceability for their unique product offerings.



The screenshot displays two sections of the GI platform interface. The top section, titled 'Vendor Section', shows a table of declaration requirements for various fibers. The bottom section, titled 'Purchase Order Info', shows a 'PO Lines' table with a dropdown menu for fiber selection.

SORT	CODE	NAME	DOCUMENT	FIELD	FIBER TYPE	DECLARATION ORDER (Y:PO/N:SO)	REQUIRED	INTERNAL ORDER REQUIRE	EXPORT	ENABLE	ALLOW MULTIPLE	ACTION
1	raw	Sa	2	3	CC		<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	raw_purchase_order	Purchase order	1	0	COTTON		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fa	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	raw_po_in_out	PO Import and export	2	0	COTTON		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fa	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	raw_material_pri	Purchase Inbound list	1	7	COTTON		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fa	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

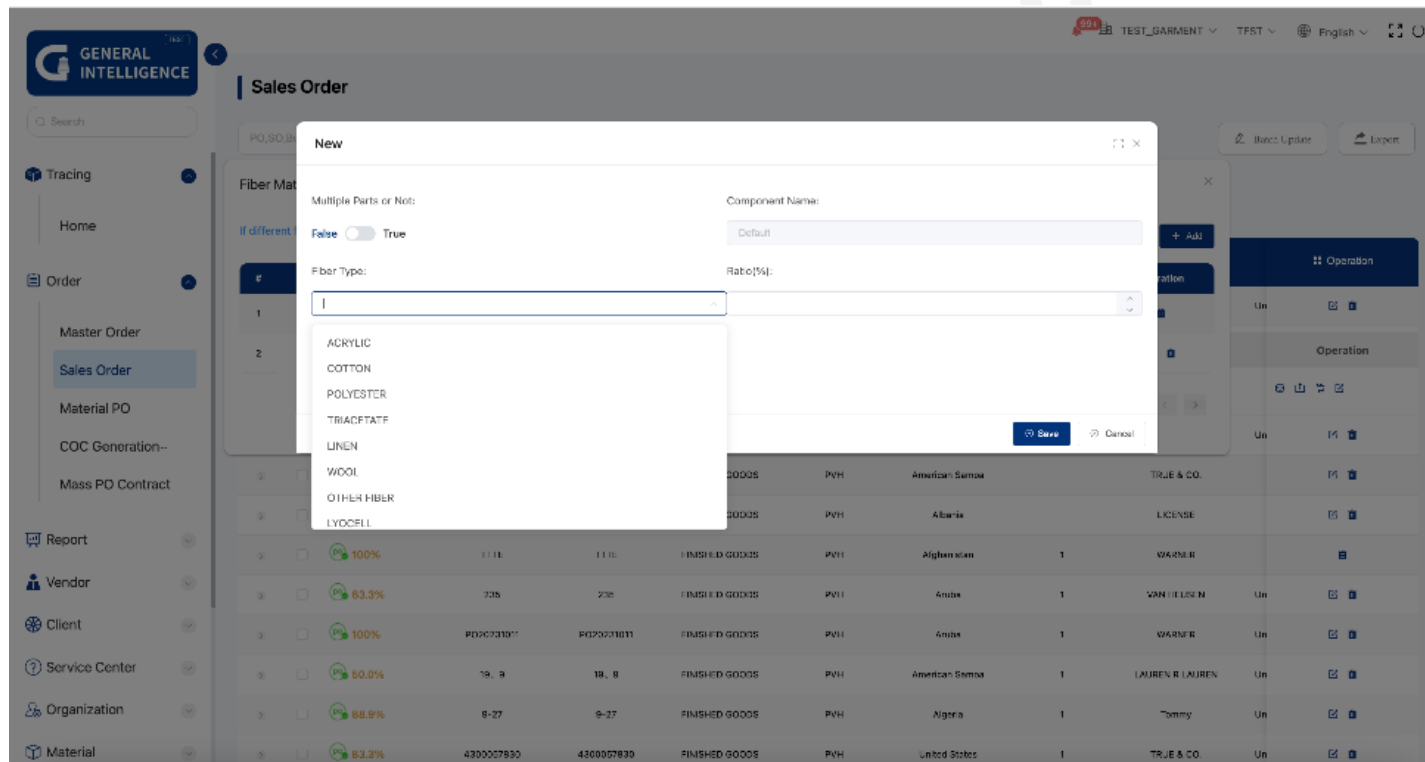
TRACING NO.	PRODUCT ITEM NUMBER	MATERIAL NUMBER	MATERIAL NAME/INFO	BATCH	COLOR	NUMBER	UNIT	REMARK	ACTION
1	PRF221300000358	7675				390	ton		<input type="checkbox"/>
2	Auto					0			<input type="checkbox"/>
3	Automatic generation								<input type="checkbox"/>

The dropdown menu in the 'PO Lines' table shows the following options: ACRYLIC, COTTON, POLYESTER, LINEN, WOOL, OTHER FIBER, RECYCLED COTTON, and TENCEL.

GI platform sample on different setting on declaration requirements

Individual Product Declaration at Each Level

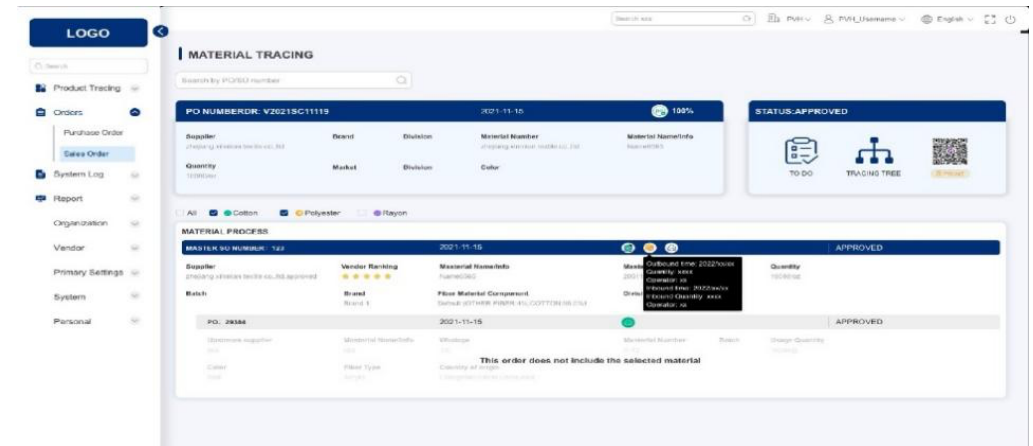
Each level in the supply chain is responsible for declaring the fiber composition of the final product. This ensures that every entity, from yarn mills to manufacturers, accurately reports the fibers used in their processes. The system supports a seamless integration of diverse fibers, maintaining transparency throughout the production chain.



GI platform sample on declaration in different production level

Brand Visibility in Tracing

Brands gain comprehensive visibility during the tracing process. They have the option to view the entire declaration or focus on specific fiber categories. This level of customization enables brands to efficiently manage and analyze traceability data according to their product portfolios.



GI platform sample on brand visibility

Conclusion

The GI platform's innovative approach allows for the effective tracing of mixed raw materials within a single order. From the yarn mill's initial selection of multiple fibers to brand-specific declaration requirements and individual product declarations at each level, the platform ensures a transparent and flexible traceability process. Brands can confidently navigate the complexities of the textile supply chain, gaining insights into their product composition based on different fibers and maintaining a high level of visibility throughout the production journey. This structured system provides a robust foundation for brands to uphold quality standards, meet compliance requirements, and foster consumer trust in their diverse product offerings.



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