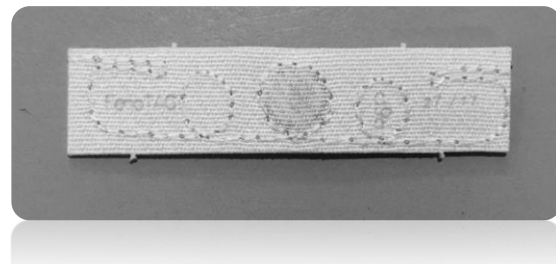


UHF RFID Tag for Textile Small, SLIM, & Customizable 100% Made in France

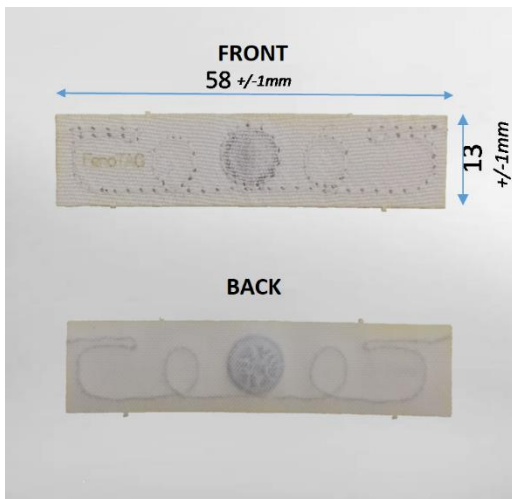
The **FenoTEX-1358S-R6P** is a new SLIM Woven RFID label for Flat Linen, Garments, Pillowcases etc. Each FenoTEX-1358S-R6P has been specifically designed for tracking textile inventory throughout the harsh environment of the laundry industry. Tags are manufactured with an enhanced shape, robustness and ease of application with an extremely long-range RFID read performance. The FenoTEX-1358S-R6P is based on a unique and patented concept. It uses a very small UHF device coupled to an embedded secondary antenna made of an innovative, flexible thread.

The FenoTEX-1358S-R6P is easily affixed to textile products using a standard sewing machine with a specific trace, sewing the two edges or inserting them into the hem of textile items. Specifically designed for flat linen to be as slim as possible maintaining an acceptably profile in terms of RF performance and physical dimension.

EPC Global and ISO 18000-6C compliant UHF tags.



Design & Product overview:



- Overall thickness < 0.5mm, except on chip area < 2.2mm
- Weight: ~0,55g
- Customer name and Serial number can be engraved by laser
- Custom dimension on request
- Logo printable on tag
- Fixing method:
 - compatible for sewing only (*No adhesive*):
Ref: FenoTEX-1358S-R6P
 - (version for heat-sealing and/or sewing):
Ref: FenoTEX1358-R6P

Environmental / Mechanical Characteristics / Warranty

Temperature:

Storage: -40°C – +120°C

Operating:

- Patching: 220°C (428°F), 20 seconds, 1 cycle
- Washing: 90°C (194°F), 15 minutes, 200 cycles
- Drying: 180°C (356°F), 3 minutes, 200 cycles
- Tunnel Finisher: 170°C (338°F), 10 minutes
- Autoclave: 3.2bar, RH 85%, 5min @ 134°C (273°F)

Chemicals: Resistant to all common chemicals in the washing process

Lifetime: 200 wash cycles or 3 years from shipping date, (whichever comes first)

Electrical Characteristics:

Electrical	Specification	Units	Comments
Integrated Circuit	UHF Gen 2 – ISO18000-6C		Impinj Monza 6RP
Frequency carrier	860-960	MHz	Compatible worldwide. (EU, US, ASIA)
READ RANGE	Up to: 6	Meters	Depending of reading station
MULTIREAD	Up to: 800		Depending of reading station
EPC Memory	96 to 128	bits	96bits Pre-encoded by FENOTAG
User Memory	32 to 64	bits	32bits per default. (64 as an option. Then EPC will be fixed to 96bits)
TID. Unique number	96	Bits	Serialized number
Data retention	50*	years	Tamb < 55°C
Write Endurance	100,000*	cycles	Tamb < 55°C
ESD immunity	+/-2	kVolts	(H.B.M)
Other features*:	Autotune function, FastID, TagFocus, Monza Self serialization, Passwords lock/Kill/Access—64 bits		

Material:

- Fabric: Polyester and Polycotton.
- Antenna: Multiple wires of Stainless steel.
- Module: Epoxy, Gold wire, Polyimide, Copper with gold plating.

Delivery Format:

Delivery	Specification	Details
Format	Bulk, in plastic bags	Standard: 500 tags/bag.
Delivery details	Label with lot number, number of good tags on the bag.	Approx. Weight : 300g
Test	100% tags are tested and encoded.	(unique EPC). Datafile available per shipment if requested at the order.
Yield	100%	ALL Tags are tested 100% automatically.
Bag size	500 good products	Option: Other quantities.
Minimum of order	5,000 tags	Unit of order : bag
Personalization	Optional	<ul style="list-style-type: none"> • IC memory encoding, • Serial number engraving by laser • Customer artwork on Tag (color) • Tag delivered on reel, with or without precut line.

Thermal patching process: (for the version FenoTEX-1358-R6P)

Recommended: 205°C/12s/5bars, or 210°C/10s/5bars.

Heat sealing should be performed on **clean dry items**

Barrier textiles need extra attention (very thin layer on top of textile which could decrease patching adhesion). Due to the nature of the textiles i.e. developed to prevent matter from passing through it, Patching the transponder can be an issue. In that case, an extra cycle to pre-heat the barrier textile for 7 to 10 seconds can amend any adhesion issues. Position the transponder patch immediately after pre-heating and seal it into place.

Final adhesion is also depending on your material. [\(Please validate your parameters with your own machine and material before using\)](#)

The standard version FenoTEX-1358S-R6P can be fixed by sewing or insertion into a Hem or a pouch only.

Disclaimer: FENOTAG reserves the right to change its product and services at any time without notice. As our products are used in circumstances beyond our control, we cannot be held liable for any damage caused through their use. This product specification replaces earlier versions.