E-Lix

Primo1D
The E-Thread™ Company

E-Lix an UHF RFID textile tag miniaturized, flexible, durable and washable.

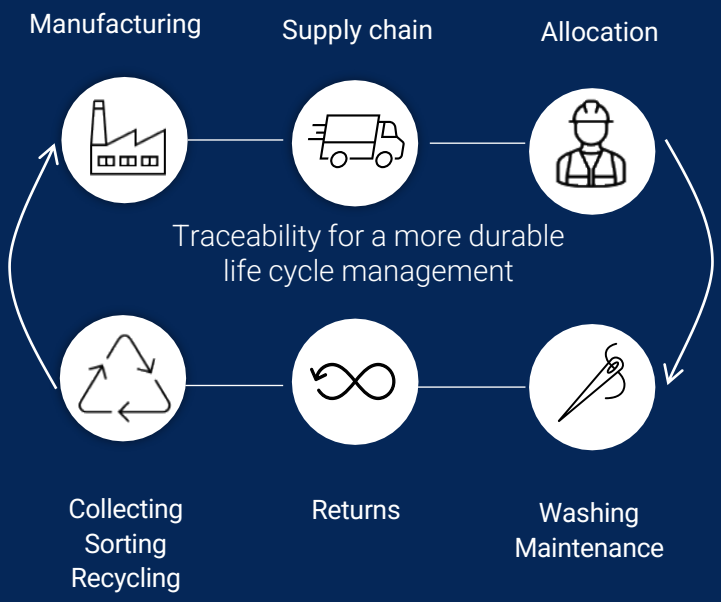
The RFID tag is easily integrated **in uniforms, workwear and Personal Protective Equipment** at manufacturing stage or afterwards.

It addresses the challenges of **identification** and **traceability**, particularly during **maintenance cycles** and enables the deployment of new services aimed to final users.

WORKWEAR

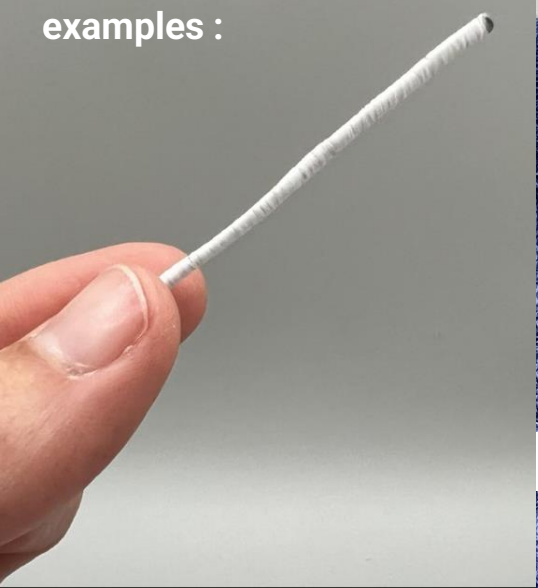
Main benefits of **E-Lix** tag:

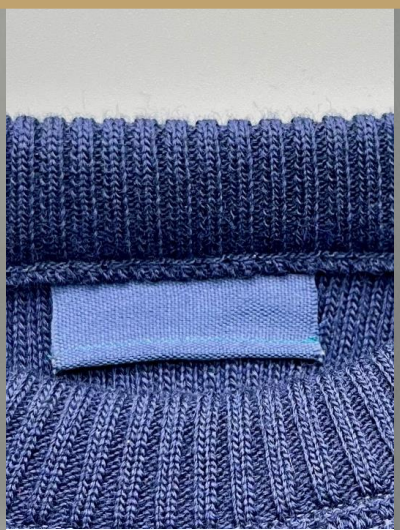
- Optimization of time, labour and costs through fast and reliable bulk reading
- Prevention of losses through a unique digital identifier
- Imperceptibility to end users due to its very small size
- Proven resistance in constrained environments up to 200 wash cycles



With its unique identifier, the embedded **E-Lix** tag allows associating a product with all the data collected throughout its **entire life cycle**, in compliance with the **European Sustainability Product Regulation** (Digital Product Passport).

E-Lix tag integration examples :





in pocket tag

in piping

under thermo patch label

E-Lix

PRODUCT INFORMATIONS

- **INTERNATIONAL STANDARD**
  ISO/IEC 18000-63 Type C, EPC Gen2
- **REACH (EC) No. 1907/2006 REGULATION**
  Compliant
- **EU RoHS 2 (Directives 2011/65/EU and 2015/863)**
  Compliant
- **RFID CHIP**
  IMPINJ M750
- **EPC MEMORY**
  Up to 128 bits
- **TID**
  96 bits of serialized TID with a 48-bit serial number

- **WEIGHT**
  0.125 g
- **LENGTH**
  ~60 mm
- **DIAMETER**
  1,8 mm
- **COMPOSITION**
  Encapsulated chip in epoxy resin
  Stainless steel and woven polyester
- **EXTERNAL COVER LAYER**
  Polyamide 6-6
- **COLOUR**
  Ecru
- **PACKAGING**
  Individual tag

PRODUCT PERFORMANCES

READING DISTANCE

Up to 6 meters

FREQUENCY BAND

UHF 860 - 960 MHz

OPERATING TEMPERATURE

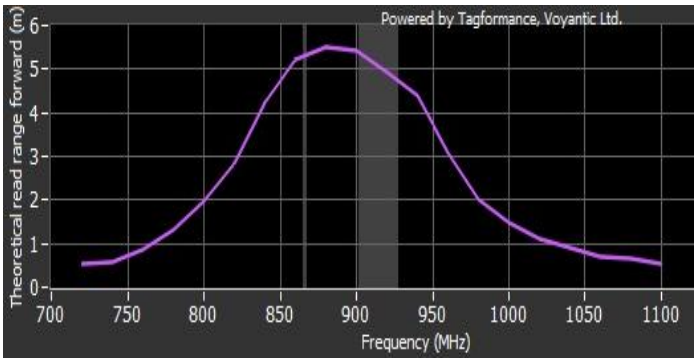
-40 °C to 85 °C / Maximum writing operation 65°C

WASHING STANDARD

200 industrial washing cycles - **NF EN ISO 15797**

STERILIZATION

200 cycles Prion - **ISO 1140-1 & NF EN 867-1**



The graph is for reference only, performance may vary depending on the application and environment.
Non-contractual data.
This product is currently a prototype.

E-Lix – June 2024 - Primo1D - RCS Grenoble B 794 635 235 – Model & Photos: Primo1D

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