

1. Product description:

A UHF soft washing label that can be industrially washed more than 200 times.

In industrial and medical washing situations, it can withstand 60 Bar atmospheric pressure and has stable and reliable performance.

According to different installation methods, this product has two models, as shown in the following figure:



Module: 10-Laundry7015

Installation method: installation by sewing



Module: 10-Laundry7015

Installation method: Use 215 °C @15~20 seconds hot stamping or sewing

2. What are the advantages?

- ✓ **Exceeds 200 industrial wash cycles** – rigorously tested for durability
- ✓ **100% memory write functionality tested** – ensures data integrity
- ✓ **Materials & design validated** through rigorous reliability testing
- ✓ **100% radio frequency (RF) consistency certified** by European-certified Tag performance equipment.

3. Key Features:

- ✓ **Customizable soft washable tags** – tailored to client specifications
- ✓ **MRI-compliant soft tags** – meets medical imaging safety standards
- ✓ **Gentle textile-friendly design** – ultra-soft material prevents fabric damage
- ✓ **World's smallest chip modules** – compact integration for seamless embedding
- ✓ **High-pressure resistant** – withstands 60 Bars industrial pressure
- ✓ **Pre-drying endurance** – survives 200 cycles of 180°C/356°F heat for 30 minutes (industry-leading)

4. Specification description

Air protocol	EPC Class1 Gen2; ISO18000-6C
Operating frequency	902-928MHz / 865~866MHz
Chip type	NXP U CODE 9
Chip storage	EPC 96 bits TID 96 bits
Read and write performance	Readable and writable (customers can repeat the content into the chip 100,000 times)
Data preservation	20Years
Product use time	2 years or more than 200 washes
Material	Flexible textile
Product size	70mm x 15mm x 1.5mm (Customization)
Operating temperature	-25° C~ +110° C
Storage temperature	-40° C~ +85° C
Short-term heat resistance	1. Washing: 90° C, 15 minutes, 200 cycles 2. Rotary oven pre-drying: 180° C, 30 minutes, 200 cycles 3. Ironing: 180° C, 10 seconds, 200 cycles 4. High-temperature sterilization: 135° C, 20 minutes
Storage humidity	5%~95%RH
Mounting method	10-Laundry7015: Sewn into the rolled hem or installed within the woven label sleeve. 10-Laundry7015-H: Heat pressing method at 215°C @15 seconds and 4 bars (0.4MPa) pressure; Or thread-sewn installation (contact the original manufacturer for detailed installation instructions prior to implementation); Or installed within the woven label sleeve*.
Product weight	~ 0.7g/pcs
Package	200pcs/bag
Product color	White
Withstand pressure	60 bars
Chemical property	Can withstand all chemical agents in normal industrial washing processes
RoHS Certificate	Passed
Reading distance	Table—over 5.5 M (ERP=2W) Handheld—over 2 M (By ATID AT880 Handheld reader)
Polarization	Linear polarization

During sewing installation:

The stitching thread must not damage the metal wires or chip module on the label.

For heat-sealing installation:

Optimal heat-sealing is achieved at **215°C to 218°C for 15-20 seconds**.

Temperatures **below 210°C** carry a risk of compromised heat-sealing effectiveness.

Note:

Different reading/writing devices may exhibit variations in read/write performance.

5. Main application :

- Industrial Washing Management;
- Linen Rental Management;
- Uniform Clothing Management & Washing Management;
- Workwear Rental & Laundry Management;
- Hospital Linen & Laundry Management;
- Military Clothing & Bedding Management;
- Railway Linen Management & Washing Services;
- Police Apparel Management;
- Personnel Management;
- Access Control Management;
- Firefighting Clothing & Soft Material Management;
- Other Applications Requiring Soft & Pressure-Resistant Materials.