# TagMatiks

# TagMatiks RFID Laundry Tags

**Frequency: 866-868 MHz (EU), 902-928 MHz (US)**

## Ordering Information

**SKU for**

Heat- Seal: TAG-HS-UT
Stitch On: TAG-S-UT
Embed: TAG-E-UT

## What can be tagged with Laundry Tags?

→ Shirts
→ Pants
→ Hats
→ Ties

→ Towels
→ Blankets
→ Mattresses
→ And more!

### 1. Why use Laundry Tags?

Linens and garments that are commercially laundered tend to face tough external conditions, such as exposure to strong chemicals, submersion under water, and extreme temperatures. These conditions have made it difficult for businesses to use RFID for linen management - until now! RFID Laundry Tags are waterproof and highly durable. The TagMatiks Uniform Tracking Laundry Tags are encased in a tough cotton-polyester fabric, protecting the antenna and RFID chip from the stresses of the industrial wash cycle, sterilization chemicals, high.

### 2. What applications require Laundry Tags?

Laundry Tags are ideal for applications involving garments and linens. A common use case for RFID Laundry Tags is to track uniforms that are issued to employees, allowing the company to reduce the risk of shrinkage on their inventory and ensure that they get back the uniforms they issue out. RFID Laundry Tags are also great for hotel linen management to allow for item visibility on linens such as blankets and towels, enabling the hotel to ensure that these items are not being constantly stolen or lost. Any application requiring the tracking of linens or garments which will be exposed to various potentially damaging elements can benefit from the durability of RFID Laundry Tags.

## Washing

| Withstands Exposure To | - | Water and all chemicals common to commercial laundry and dry cleaning |
|---|---|---|
| Washing Cycles | - | Up to 200 commercial wash cycles |
| Washing | - | 194° F (90° C) 15 min |
| Drying | - | 248° F (120° C) 20 min |
| Tunnel Finisher | - | 365° F (185° C) 15 min |
| Ironing | - | + 428° F (220 ° C) 20 bars 10 x 10 sec., a thin tissue is placed between the iron and the tag |

## Thermal (Air)

| Storage | - | -40° to + 185° F (-40° to +85° C) 1 x 1000 h |
|---|---|---|
| Operating | - | -40° to + 185° F (-40° to +85° C) |
| Peak | - | 248° F (120° C) 100 h |
| Shock/Fatigue | - | +68° to + 320° F (+20° to 160° c) 200 x 5 min with 30 sec transition |

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### Contact

📞 **(408) 739-3500**

✉ **sales@rfid4ustore.com**

🔗 **rfid4ustore.com**

### Location

📍 **5159 Commercial Circle, Suite H, Concord, CA, 94520**

### Radio Frequency Specification

| | | |
|---|---|---|
| Operating Frequency | - | 866-868 MHz (EU), 902-928 MHz (US) |
| Chip Type | - | MONZA M5 |
| Memory | - | 128 bit EPC |
| Anti-Collision | - | Yes |
| Reading Distance (2W Reader ERP, free space) | - | Up to 23ft (7 m) |

### Chemical and Mechanical Resistance

| | | |
|---|---|---|
| Vibration | - | IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h] |
| Shock | - | IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times] |
| Impact | - | IEC 62262-IK06 |
| Axial/Radial Force | - | 1000 N, 10 sec |
| Mechanical Tests | - | Bending (500 times 10 mm radius), twisting (500 times 180°), drop test (100 times 0.6ft/1.8m |
| Extractor Press | - | 60 bar |

### Physical Specification

| | | Embed Tags | Stitch Tags | Heat-Seal Tags |
|---|---|---|---|---|
| Length xWidth | - | 2.5 x 0.9 in (64 x 22 mm) | 2.5 x 1.1 in (64 x 28 mm) | 2.5 x 0.9 in (64 x 22 mm) |
| Thickness | - | 1.7 mm at module, 0.9 mm over rest of tag | | |
| Mounting Method | - | Sew into hem or pouch | Stitch onto fabric | Heat-seal |
| Affixes To | - | Linens and garments | | |
| Housing Material | - | Cotton and polyester | | |
| Color | - | White | | |
| Weight | - | 0.04 oz (1g) | | |