

Hydro LA421-P

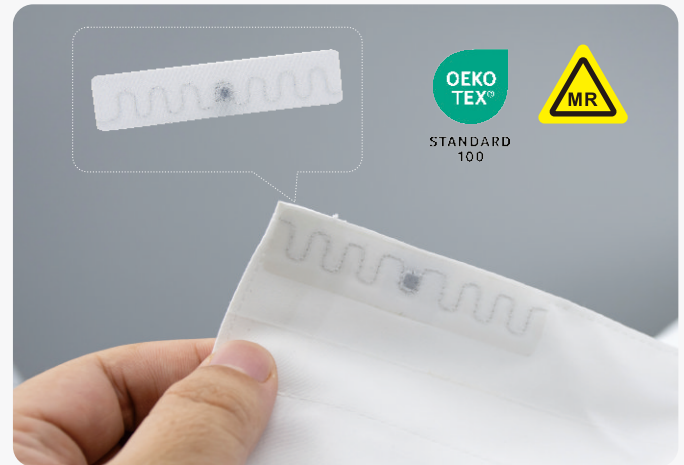
70 x 15 mm U9xe

Powered by RFID, one of the most widely used automatic identification (Auto-ID) technologies, RICHRFID laundry tags feature a unique ID embedded in a new-generation RFID chip and support highspeed bulk reading, serving as the ultimate solution for seamless textile management. No more missing inventory, mix-ups, or timeconsuming manual counts simply scan and know exactly where each item is at all times. Durable, discreet, and easy to integrate into your workflow, these RFID laundry tags streamline operations and grant total control over textile assets.

Designed for high-volume textile services in hotels, hospitals, industrial workwear, and linen rental operations, they provide real-time visibility and full lifecycle traceability of textiles from distribution to return, helping reduce losses, improve inventory accuracy, boost efficiency, optimize processes, and cut costs.

Engineered for textile identification and tracking in industrial and commercial laundry environments, RICHRFID laundry tags feature solid chip encapsulation and a durable antenna. They are built to survive harsh conditions including high temperatures (drying/ ironing), aggressive chemicals, detergents, high-pressure washing, and hundreds of wash cycles (typically up to 200) while remaining discreet, comfortable (with no sharp edges), and fully functional.

Multiple installation methods are available, such as sewing, heat sealing, or pouch insertion, while their soft and lightweight design allows for seamless textile integration. Thanks to specialized antenna materials, they are fully compatible with needle detectors and MRI (Magnetic Resonance Imaging) machines.



Applications

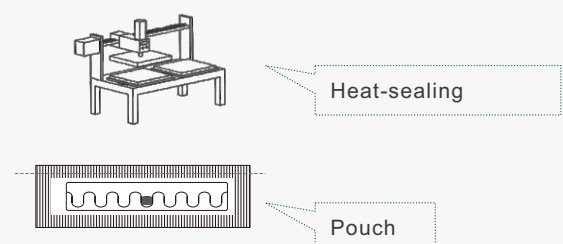
- ✓ Hospitality: Hotel linens, towels, robes, uniforms. Prevents loss, optimizes inventory, automates sorting.
- ✓ Healthcare: Hospital linen, patient gowns, surgical textiles. Tracks sterilization cycles, ensures compliance.
- ✓ Industrial / Corporate: Workwear, rental uniforms, cleanroom garments. Manages stock, usage cycles, and maintenance.
- ✓ Sports / Leisure Clubs: Towel rental, locker management.
- ✓ Laundry Service Providers: Automated sorting, billing, loss prevention.



Highlight & Benefits

- Long, efficient and reliable bulk reading for fast inventory and sorting.
- Withstands industrial washing, drying, and ironing processes.
- High resistance to water, detergents, chemicals, pressure, etc.
- Flexible attachment options.
- Customization-design, printing, encoding available.
- Compatibility with MRI & needle detector.

Installation



Technical Features

Model	Hydro LA421-P
RFID Features	
Air Interface Protocol	EPC Class 1 Gen 2, ISO / IEC 18000-63 Type C
Frequency	860-960 MHz
Chip Type	NXP Ucode 9xe
Memory	User - N/A; EPC - 128 bits; TID - 96 bits
Data Storage	> 20 years
Re-write	100,000 times
Read Range (2W ERP)	FCC: > 12.5 m (41.0 ft) ETSI: > 11.0 m (36.1 ft)
Physical Features	
Dimension	70 x 15 mm (2.70 x 0.60 in)
Thickness	1.50 mm (0.06 in) on chip location only, Rest of tag is 0.60 mm (0.03 in)
Weight	0.40 g
Material	Polyester
Installation	Heat-seal the tag onto the textile at 210°C and 0.6-0.8 MPa for 20 seconds or pouch
Durability Features	
Lifespan	200 washing cycles or 3 years, whichever comes first
Washing Method	Laundry, Dry cleaning
Water Extraction Pressure	60 bars
Chemical Resistance	Detergent, Softener, Bleach (Oxygen / Chlorine), Alkali
Washing Temperature	90°C (194°F) / 15 minutes
Pre-drying in Tumble	180°C (356°F) / 30 minutes
Ironing Temperature	185°C (365°F) / 10 seconds
Sterilization Temperature	135°C (275°F) / 20 minutes
Other Features	
Humidity / Temperature-Operating	-20~+85°C (-4~+185°F) / 8~95%RH
Customization	Printing, Encoding, Design, etc.
Package	1000 pcs / bag, 15 bag / box

RICHRFID

Web: <https://www.richrfid.com> E-mail: info@richrfid.com
Shenzhen | Hong Kong | Singapore | Seoul | Tokyo | Paris



DISCLAIMER

All specifications are indicative and results may vary. Each user bears full responsibility for making its own determination as to the suitability of RICHRFID products, materials, services, recommendations, or advice for its own particular use.

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