

# INVENGO BLUTAG HF TAG



## About Invengo's BluTAG Durable, Small Size High Performance HF Tag

Invengo's rugged BluTAG offers superior performance and reliability in the identification and tracking of textile products in industrial environments. BluTAG is one of the sturdiest and most resilient encapsulated HF tags available on the market today. It has been specifically designed for industrial textile products, including flat linen identification in rough industrial laundry environments.



Invengo – the global RFID technology provider – is a leading developer and manufacturer of high quality, intelligent RAIN RFID (UHF) and NFC (HF) inlays, tags and connectivity solutions utilized in the Internet of Things (IoT). With a focus on RFID innovation, Invengo has created a leading product line in retail, library, (industrial) laundry, pharmaceutical, healthcare, (public) transportation and many other industries.

Invengo Technology Pte. Ltd. (SG) is the International Headquarters of Invengo Information Technology Co. Ltd, listed on Shenzhen Stock Exchange (SZSE: 002161.SZ). Employing over 600 people globally, Invengo is one of the largest publicly traded, RFID oriented companies in the world.

### Key Benefits

- Small in size and unobtrusive
- Extremely robust, designed for harsh laundry processes
- Outstanding HF read performance
- Optimized coat / quality ratio

# Product Specifications

## General

<b>Frequency</b>	13.56 Mhz
<b>Operating Mode</b>	Passive
<b>Diameter</b>	15 mm (0.59 in)
<b>Thickness</b>	2,8 mm max (0.11 in)
<b>Material</b>	PPS, light blue
<b>Marking</b>	Chip reference, chip ID and fab out date laser engraved on transponder housing; 40 bit chip ID marked in hexadecimal over 10 digits around the tag; Date format: xx(week)y(year) in center

## RFID

<b>Operating Protocol</b>	ISO 15693, ISO-18000-3-1
<b>Memory</b>	64 UID bits (16 digits) Multi-read, lockable
<b>Data Retention</b>	50 years

## Laundry Cycle Performance

<b>Maximum Temperature Exposure</b>	220°C (428°F) / 30 seconds / 2.5 bars (36.28 PSI)
<b>Tunnel Washer</b>	90°C (194°F) / 15 minutes
<b>Pre-drying in Tumbler</b>	185°C (365°F) / 15 minutes
<b>Tunnel Finisher</b>	185°C (365°F) / 30 minutes
<b>Sterilization Process</b>	134°C (273°F) / 20 minutes
<b>Vulcanization Process</b>	220°C (428°F) / 30 minutes: Oppm defective part*
<b>Water Extractor Press</b>	60 bars*
<b>Washing Cycles</b>	300 cycles or 3 years minimum guaranteed

\* Performance level measured and guaranteed in Invengo's Laundry tests and conditions

## Delivery

<b>Delivery Packaging</b>	500 units in transparent plastic bags (weight 410 g +/- 5%)
<b>Parcel Labeling</b>	Sales reference, order number, quantity
<b>Quality Control</b>	100% final inspection and full traceability database for each individual tag via its UID code number
<b>Minimum Order</b>	1000 units
<b>Product Reference</b>	TL340E01

## Additional Information

Our R&D and Quality experts have selected the most reliable RFID tag technology, while optimizing cost-efficiency, to ensure BluTAG's outstanding read performance. The new tag performance is improved up to 25% compared to previous generation tags using Invengo's latest reader platform.

BluTAG is small and unobtrusive, sewn into textile products either in the hem, inside a fabric pouch or heat sealed under a patch.

BluTAG is multiread and performs very fast even with high temperature, providing a reliable solution when clean items have to be read just after the ironing process.

BluTAG is highly resistant to tunnel washers, water extractors (up to 60 bars), tunnel finishers, tumblers and calendars (up to 200°C/392°F).

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