

# BST METAL DETECTABLE LOOP TAGS

HEAT RESISTANT & METAL DETECTABLE BATCH TRACEABILITY TAGS



## Product Specifications

Revised March 2015

BST metal detectable loop tags are designed to address foreign body contamination concerns associated with regular paper traceability tags used in food processing environments. Metal detectable loop tags contain a 7 micron thick layer of aluminium foil designed to trigger metal detection systems, even when the tag is shredded into small pieces.

BST testing concluded that even a 10x10mm piece of our tag material was sufficient to trigger a metal detection alarm and rejection process (*See Detectability Guide for full information*). BST metal detectable loop tags are heat resistant to at least 200°C of dry oven heat and are available in two standard sizes with 7 standard colours.

Our bespoke service means that high volume users can also benefit from unique tag sizes and bespoke printing, please contact our sales team for a full consultation and quotation.

### Product Advantages:

- ✓ Detectable by conventional metal detection systems
- ✓ Can be used as part of HACCP procedures
- ✓ Shows due diligence in preventing contamination
- ✓ Wide operating temperature range (-20° to 200°C)
- ✓ Bright colours for easy visual identification
- ✓ Two custom fields for specific data
- ✓ Hard wearing / excellent tear resistance
- ✓ Bespoke printing service available

### Physical Characteristics:

Face Thickness:	245µ +/- 10%
Weight:	275 GSM +/- 5%
Tear Resistance:	Good



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## LT224850HM

Roll of 500, large sized, heat resistant, tear resistant, pre-printed, metal detectable loop tags



Tag Size	50 x 279 mm
Roll Size	500 tags
Tag Print	White on the reverse, one side coloured and pre-printed with 6 row grid with fields for 1) Product 2) Date/Time 3) Batch Code 4) Use By 5) Blank 6) Blank
Tag Style	Self-tie locking loop tag
Tag Colours	Blue, Red, Yellow, Green, White, Orange, Pink
Availability:	Stocked at BST - Lead time 3 working days

## LT22550HM

Roll of 500, small sized, heat resistant, tear resistant, blank, metal detectable loop tags



Tag Size	25 x 190 mm
Roll Size	500 tags
Tag Print	White on the reverse and one side coloured
Tag Style	Self-tie locking loop tag
Tag Colours	Blue, Red, Yellow, Green, White, Orange, Pink
Availability:	Stocked at BST - Lead time 3 working days



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**Product Materials:** Four layer laminate construction consisting of a white machine coated paper and an uncoated white paper on the reverse, sandwiched between these is a 50 micron polyester (for strength & heat resistance) and 7µ aluminium foil (for metal detectability).

**Typical Applications:** Bakery batch identification & other traceability applications.

**Printability:** Variable information printing and barcodes are possible using a thermal transfer printer and suitable ribbons. The tags are also suitable to be written on with BST Detectable Fine Tip Marker Pens.

### Detectability:

BST metal detectable loop tags contain an aluminium layer to provide metal detectability. As such, your inspection systems should be capable of detecting aluminium contaminants. These loop tags are not considered to be compatible when used in conjunction with aluminium trays / other aluminium food packaging.

A 10 x 10mm piece of BST metal detectable loop tag gave the following test piece equivalent readings when tested through the geometric centre of an Anritsu KD8124AW coaxial metal detection system with a 95 x 450 mm aperture.

<u>Reading Type</u>	<u>Test Piece Equivalent</u>	<u>Recommended Detector Sensitivity</u>
FERROUS	1.5 mm	1.2 mm
NON FERROUS	3.5 mm	3.0 mm
STAINLESS STEEL	3.5 mm	3.0 mm



The above tests were repeated three times in order to gain accurate readings, please bear in mind however that the above guidance does not take into account any product effect. The following factors can have considerable effects on detectability:

- Aperture dimensions
- Contaminant orientation
- Product Type (Wet / Dry / Frozen / Physical State)

BST recommend that all our products be thoroughly tested on your metal detection systems by a trained and certified professional. It may be the case that your equipment may need to be recalibrated in order to reliably detect this product. Such a professional should be available by contacting the manufacturer of your metal detection system.

### DISCLAIMER

The information provided in this product specification sheet is based on our experience and knowledge to date and we believe it to be true and reliable. This information is intended as a guide for your use of our products, the use of which is entirely at your own discretion and risk. We, BS Teasdale & Son Ltd cannot guarantee favourable results and assume no liability in connection with the use of our products.

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