

Product Specifications

| January 2020



The 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.

The 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). The 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:

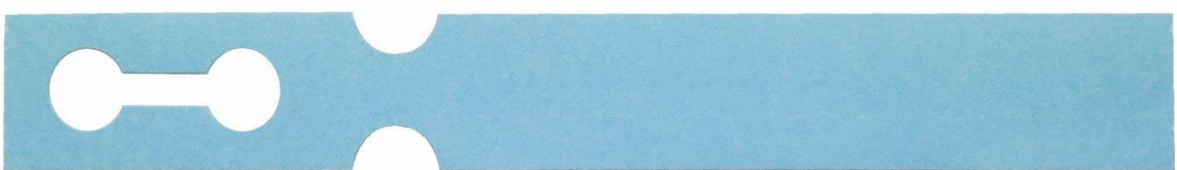
- ✓ Detectable by conventional metal detection systems
- ✓ Can be used as part of HACCP procedures
- ✓ Shows due diligence in preventing contamination
- ✓ Wide operating temperature range (-20° to 200°C)
- ✓ Bright colours for easy visual identification
- ✓ Two custom fields for specific data
- ✓ Hard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

Physical Characteristics:

Face Thickness:	200µ +/- 10%	Heat Resistance:	200°C +/- 20°C
Weight:	270 GSM +/- 5%	Ribbon Print Compatible:	Yes
Tear Resistance:	Good	Outdoor Use:	Not Recommended

PRODUKTINFORMATIONEN

8900646-, 8900645- 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 + Others on special request

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 + Others on special request

PRODUKTINFORMATIONEN

EU Food Contact Approval

The detectable paper/film/paper compound used to manufacture the Metal Detectable Loop Tags is in compliance with the rules of the Regulation (EC) No 1935/2004 of the European Parliament and Council of 27th October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC, Official Journal of the European Union L 338/4 of 13/11/2004, modified by app no 5.17 of the regulation (EC) No 596/2009 of 18th June 2009, Official Journal of the European Union L 188 of 18 July 2009, article 3.

The product is also in compliance with Commission Regulation (EU) No 10/2011 of 14th January 2011 on plastic materials and articles intended to come into contact with food, Official Journal of the European Union L 21/1 of 15th January 2011, last amendment by Commission Regulation (EU) No 2015/174 of 5th February 2015, Official Journal of the European Union L 30/2 of 6th February 2015.

Niebling declare that our Metal Detectable Loop Tags may be used safely in contact with dry, non-fatty foodstuffs.

German Food Contact Approval

The product is also approved according to German Recommendation XXXVI for the health-related evaluation of materials and objects for the contact with foodstuffs in the frame of the Foodstuffs and Animal Feed Code, 34th memorandum, Bundesgesundheitsblatt 10, 14 (1967), including the 219th memorandum, Bundesgesundheitsblatt 58,

1195-1197 (2015), state of 1st July 2015.

Niebling declare that our Metal Detectable Loop Tags may be used safely in contact with dry, non-fatty foodstuffs.

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. We also offer a bespoke printing service onto our plain loop tags with no minimum orders. The tags are also suitable to be written on with Detectable Fine Tip Marker Pens.

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Detectability

The 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 the 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)

Niebling recommend that all our products be thoroughly tested on your metal detection systems by a trained and certified professional. It may 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, Niebling Technische Bürsten GmbH, cannot guarantee favourable results and assume no liability in connection with the use of our products.