

PRODUKTINFORMATIONEN

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Product Specification Sheet

Metal Detectable Tape |



Metal Detectable Tape

The Metal Detectable Self Adhesive Tape is an uncoated paper / foil laminate construction coated with a hot melt adhesive. The construction is a 60gsm machine glazed wood free paper laminated to a 7µ aluminium foil, which provides the metal detectability of the tape.

The adhesive is a high coat weight rubber based hot melt designed to give superior initial tack on moist, rough or difficult surfaces. The glassine liner is designed for use on automatic applicators if required. This metal detectable tape is suitable for a variety of food processing applications such as labelling (E.g. Quality Control), securing items where regular tapes are not allowed, packaging products where regular packaging tapes represent a foreign body risk, light engineering applications and also asset management such as labelling machinery or tools. By using metal detectable tape you are displaying due diligence in the prevention of foreign body contamination.

DetectaPen Range Advantages

- ✓ Detectable by in-line metal detection systems
- ✓ 3 Bright colours to choose from for easy visual identification
- ✓ Strong and long lasting permanent adhesive with high initial tack
- ✓ Easy peel perforated glassine backing
- ✓ Can be used as part of HACCP and BRC procedures
- ✓ Displays due diligence in the prevention of foreign body contamination

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Product and Packaging Information

Small Tape:	8900331-
Dimension:	50m x 25mm
Pack Weight:	0.25 kg
Large Tape:	8900330-
Dimension:	50m x 50mm
Pack Weight:	0.50 kg
Pack Size:	1 x 50m Roll
Product Colours:	B, R, Y
Detectability:	Metal Detectable
Commodity Code:	48219010

Safety Certificates / Approvals

ISEGA Approved
 BRC Compliant
 ISO 9001:2015

Materials and Applications

Manufactured using multiple materials including, but not limited to, papers, laminate, adhesives and aluminium foil. Suitable for light industrial and food tagging applications where metal detection is required. Suitable for temperature ranges of -20°C to 50°C.

Paper Foil

60gsm white machine glazed wood-free paper laminated to a 7-micron aluminium foil

Face	Unit	Typical Value	Test Method
Substande	GSM	89gsm +/-8%	TAPPI 410
Caliper	Micron	75 +/-8%	TAPPI 411

Adhesive

A rubber-resin hot melt high tack permanent adhesive designed to give high tack and adhesion to both polar and non-polar substrates. Isega approved for direct contact with dry and non fatty foods.

Adhesive	Unit	Typical Value	Test Method
Peel Adhesion	GSM	89gsm +/-8%	TAPPI 410
Loop Tack	Micron	75 +/-8%	TAPPI 411
Service Temp	°C	-20°C to 50 °C	--
Application Temp	°C	0°C	--

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Glassine Liner

60gsm honey glassine liner suitable for use where there is automatic label registration or dispensing.

Face	Unit	Typical Value	Test Method
Substande	GSM	60gsm 5%	TAPPI 410
Caliper	Micron	54 7%	TAPPI 411

Food Contact Status

Paper Foil

The face materials complies with the rules of regulation (EC) No 1935/2004 of the European Parliament and of the council of 27 October 2004 on materials and articles intended to come into contact with food.

Adhesive

The Adhesive complies with the rules of regulation (EC) No 1935/2004 of the European Parliament and of the council of 27 October 2004 on materials and articles intended to come into contact with food.

Metal Detectability

The metal detectable self-adhesive tape contains a 7 μ aluminium layer to provide metal detectability. As such, your inspection systems should be capable of detecting aluminium contaminants. This tape is not considered to be compatible when used in conjunction with aluminium trays / other aluminium food packaging.

Reading Type	Test Piece Equivalent	Recommended Detector Sensitivity
Ferrous	1.5mm	1.2mm
Non Ferrous	3.5mm	3.0mm
Stainless Steel	3.5mm	3.0mm

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 all product(s) type. The metal detectability of this product will vary based on, but not limited to:

- Calibration Levels
- Product Type (E.g. Wet, Dry, Frozen, Liquid)
- Aperture Dimensions
- Orientation

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Orientation is a highly influential factor for the metal detectability of a contaminant that is non spherical, i.e. it will be easier to detect the contaminant when passing in one orientation compared to another - this is known as the orientation effect.

For this reason Niebling 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 needs to be re-calibrated in order to reliably detect this product. Such a professional should be available by contacting the manufacturer of your metal detection systems.

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.