

## Product Specification Sheet

| Revised March 2015



**Product Name:** WeLoc<sup>®</sup> Detectable Bag Grip

**Product Description:** The WeLoc<sup>®</sup> detectable bag grip is a patent protected system, ideal for securely sealing ingredient sacks & bags, whilst minimising the risk of foreign body contamination. The grip has a 100mm sealing length, and allows easy release when access to the bag is required.

The advanced detectable polyacetal co-polymer material is designed specifically for the food industry, featuring a high temperature range, high tensile strength, high fatigue and impact resistance as well as resistance to moisture, lubricants, solvents and many other neutral chemicals. This material is dual detectable (metal detectable and x-ray visible).

The WeLoc<sup>®</sup> detectable bag clip is manufactured from FDA food contact approved materials, see further details in the standards compliance section of this specification sheet.

**Product Code:** 8250002

**Batch Quantity:** 1

**Batch Weight:** 0,10kg Approx

**Colour Availability:** Blue

**Product Advantages:**

- ✓ Detectable by conventional metal detection & x-ray inspection systems
- ✓ Durable for temperatures as low as -50°C
- ✓ Highly visible bright blue colour for easy visual identification
- ✓ FDA food contact approved material
- ✓ Keeps ingredients fresh, protected and minimises spillage
- ✓ Displays due diligence in foreign body contamination
- ✓ Releasable, reusable and cost effective bag resealing solution

## Product Specification Sheet (Continued)

### Material Properties:

<u>Property</u>	<u>Value</u>	<u>Unit</u>	<u>Test Standard</u>
<b>Mechanical Properties</b>			
Density	1530	kg/m <sup>3</sup>	ISO 1183
Tensile Modulus	2800	MPa	ISO 527-1/-2
Yield Stress	61	MPa	ISO 527-1/-2
Yield Strain	8	%	ISO 527-1/-2
Nominal strain at break	15	%	ISO 527-1/-2
Charpy impact strength (+23°C)	70	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	3	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Melting Temperature (10°C/min)	168	°C	ISO 11357-1/-3
Temp of deflection under load (0.45 MPa)	160	°C	ISO 75-1/-2
Temp of deflection under load (1.80 MPa)	100	°C	ISO 75-1/-2
CLTE, parallel	120	E-6/K	ISO 11359-1/-2
CLTE, normal	120	E-6/K	ISO 11359-1/-2
<b>Flammability</b>			
Burning Behaviour at 1.5mm nom. thickness	HB	Class	IEC 60695-11-10

### Standards Compliance:

The polyacetol copolymer material used to manufacture this product complies fully with the Federal Food, Drug and Cosmetic Act and all applicable food additive regulation and the bas resin complies with US FDA regulation 21 CFR177.2480. This material may be used as articles or components of articles intended for contact on a repeated us basis, at temperatures of up to 121°C in contact with all food types except those containing more than 15% alcohol, and such use may properly complies fully with the Federal, Drug and Cosmetic Act and all applicable food additive regulations.

**Metal Detectability**

The polyacetol copolymer material contains an evenly dispersed additive, making the plastic detectable by conventional in line metal detection an x-ray insection systems, subject to correct calibration of the detection system in use. Detectability performance will vary based on, but not limited to the following factors:

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

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 recalibrated in order to reliably detect this product and its fragments. Such a professional should be available by contacting the manufacturer of your metal detection system.

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**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. None of the information above is to be taken as a licence to operate under, or a recommendation to infringe any patents