

Product Specifications

| January 2020



Multifunction Professional Stopwatch

This multifunctional professional plastic stopwatch with digital display features a stopwatch accurate to one hundredth of a second, alarm, time/calendar display, thermometer (C & F) and timer functions. The stopwatch is manufactured from strong detectable plastic which is metal detectable and x-ray visible, it also features a neck carry cord. This robust stopwatch is also water resistant and is a sealed unit with minimal germ traps making it ideal for use in production environments.

Product Code: 8900481-B

Pack Size: 1 Stopwatch

Dimensions: 62mm x 82mm x 22mm

Weight: 0.10 kg

Product Material: XDETECT Food Grade ABS

Product Advantages:

- ✓ Detectable by conventional metal and x-ray detection systems
- ✓ Reduces the risk of items contaminating production lines
- ✓ Two row display for lap/split time and total measurements with 1/100 sec
- ✓ Store and recall of up to 8 lap and split time
- ✓ Memory recall after reset and during operation
- ✓ Features countdown, thermometer, alarm, calendar and time
- ✓ Sealed unit with minimal germ traps

PRODUKTINFORMATIONEN

Food Contact Status

Hereby we declare that the material(s) XDETECT Food Grade ABS are manufactured in line with the relevant requirements of 2023/2006/EC as amended by Commission Regulation (EC) 282/2008, on good manufacturing practice (GMP) for materials and articles intended to come into contact with food. The raw materials used in the manufacturing process of the above mentioned materials meet the relevant requirements of EU Framework Regulation 1935/2004 on materials and articles intended to come into contact with food.

The monomers, starting substances and additives used are listed in Annex I of the consolidated Commission Regulation No.10 (2011) as amended by 321/2011/EC (restriction of use of BPA in plastic infant feeding bottles), 1282/2011/EC, 1183/2012/EC, 202/2014/EC, 174/2015/EC, 1416/2016/EC, and 752/2017/EC, respectively, related to Plastic Materials and Articles intended to come into contact with foodstuffs.

The colourant used in the formulation of the ABS is compliant with European Council Resolution AP(89)1 on the use of colourants in plastic materials coming into contact with food, and also with German BfR Recommendations (IX). The carbon black used in the formulation of the ABS Black is specifically tested to by the supplier to ensure continuous compliance with carbon black (CAS 1333-86-4, FCM Substance No 411) purity requirements and specific restrictions/specifications mentioned in Annex I of the Commission Regulation (EU) No 10/2011 (replacing Dir. 2002/72/EC) and its current amendments, concerning Plastics coming into contact with food.

Migration Testing

The following overall migration results for XDETECT Food Grade ABS were obtained using a UKAS accredited laboratory, with overall migration simulants and conditions as detailed in EU Regulation No 10/2011 as amended, on plastic materials and articles intended to come into contact with food.

Sample: *ABS-2016/047*
 Test conditions: Simulants A, B and Iso-octane: 10 days at 40°C 95%v/v ethanol: 2 days at 20°C

| Method | EN-1186-3 Migration into 10% v/v Ethanol (Simulant A) | EN-1186-3 Migration into 3% w/v Acetic Acid (Simulant B) | EN-1186-14§ Migration into Iso- octane (Substitute test) | EN-1186-14§ Migration into 95% Ethanol (Substitute test) |
|--------------------|--|---|---|--|
| Replicate #1 | 0.4 mg/dm ² | 0.8 mg/dm ² | 346.7 mg/dm ² | 14.5 mg/dm ² |
| Replicate #2 | 0.4 mg/dm ² | 0.8 mg/dm ² | 303.8 mg/dm ² | 15.5 mg/dm ² |
| Replicate #3 | 0.4 mg/dm ² | 0.7 mg/dm ² | 318.0 mg/dm ² | 14.3 mg/dm ² |
| Mean Result | 0.4 mg/dm² | 0.8 mg/dm² | 322.8 mg/dm² | 14.8 mg/dm² |
| EU Limit | 10.0 mg/dm² | 10.0 mg/dm² | #20.0 mg/dm² | 10.0 mg/dm² |

#Limit and tolerance are quoted after the application of a fatty food reduction factor of 2 as quoted in EU Regulation 10/2011

To summarise the overall migration test results, the XDETECT Food Grade ABS complies with the overall migration requirements given in EU Regulation 10/2011, as amended, with regards to use with all non-fatty foods and aqueous foods, as given in EU regulation 10/2011, as amended.

PRODUKTINFORMATIONEN

Metal Detectability (FOR GUIDANCE ONLY)

XDETECT Food Grade ABS is an electromagnetically detectable and x-ray visible plastic compound. The metal detectability of this compound will vary based on, but not limited to the following factors:

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

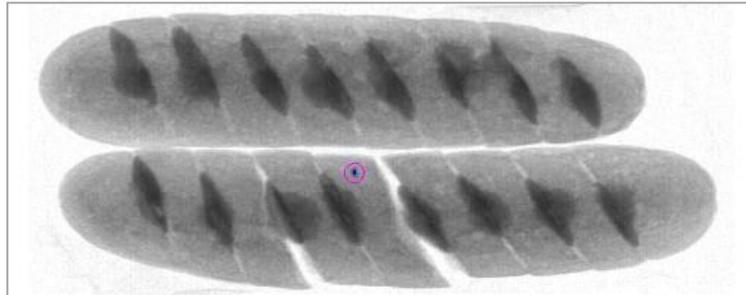
For this reason Niebling recommend that all our products be thoroughly tested on your metal detection systems by a trained and certified professional. It may be the case that your equipment needs to be recalibrated in order to reliably detect this product. Such a professional should be available by contacting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

X-Ray Visibility (FOR GUIDANCE ONLY)

In contrast to metal detection, x-ray visibility is determined by material density. For this reason, XDETECT contains an additional, evenly dispersed, food safe, high density additive.

Based on our experience and testing, positive readings should be consistent for XDETECT fragments as small as 5mm³. X-ray detection performance will be reduced when small fragments are buried in deeper, or within denser products.

Detection will depend on product type and density. This screenshot shows a 5mm³ XDETECT fragment through a popular x-ray inspection system, inside a packaged garlic bread product.



We highly recommend that all our products be thoroughly tested on your x-ray inspection 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. Such a professional should be available by contacting the manufacturer of your x-ray inspection 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.