

BST DETECTABLE SILICONE EARPLUGS

FOR USE IN THE FOOD INDUSTRY | SNR 29dB RATED

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Product Specifications

Revised May 2015



Product Name: BST 3 Flange Detectable Earplugs

Product Description: These fully metal detectable silicone earplugs feature a 3 flange design, offering increased performance and comfort. The three flange design fits a wide size of ear canals & effectively spreads pressure through increased surface contact, making the ear plugs more comfortable than the two flanged variety.

BST metal detectable earplugs and the connecting chord are manufactured using soft, flexible, silicone rubber containing an evenly dispersed metal detectable additive. Each plug contains a 3mm metal ball and a metal crimp around the end of the chord for added detectability. Both these metal components are completely encased within the detectable silicone plug.

BST detectable earplugs offer good attenuation throughout all frequencies, protecting the ears whilst displaying due diligence in the prevention of foreign body contamination.

Pack Size: 100 Pairs

Pack Weight: 0.550 Kg

Product Colour: Blue

Product Material: Silicone containing a metal detectable additive and metal inserts

Product Advantages:

- ✓ Detectable by conventional metal detection systems
- ✓ Highly visible bright blue colour for easy visual identification
- ✓ SNR 29dB protection rating
- ✓ Displays all due diligence in preventing foreign body contamination
- ✓ Can be used to form part of HACCP and BRC procedures



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Fitting Instructions: Grasp the stem of the plug behind the largest flange and insert into the ear canal using a twisting motion, until a good seal is obtained.

Removal Instructions: Grasp the stem of the plug behind the largest flange and slowly pull outwards using a twisting motion.

Washing Instructions: Wash the plugs regularly with mild detergent and rinse thoroughly in clean water, allowing to fully dry before re-using.

Choke Warning: **KEEP AWAY FROM BABIES AND SMALL CHILDREN**

Noise Performance:

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2KHz	4KHz	8KHz
Mean Attenuation	27.6 dB	29.1 dB	28.8dB	31.0 dB	28.9dB	35.4 dB	37.6 dB	40.0 dB
Standard Deviation	5.1 dB	4.6 dB	4.1 dB	5.0 dB	4.0 dB	5.2 dB	8.6 dB	6.8 dB
Assumed Protection	22.5 dB	24.5dB	24.7 dB	26.0 dB	24.9 dB	30.2 dB	29.0 dB	33.2 dB

SNR = 29 dB H = 29 dB M = 26 dB L = 26 dB
Tested to EN352-2:2002 / DIN EN 352-2:2003

Detectability:

Both the plugs and connecting cord are manufactured from metal detectable silicone rubber, with an added metal grip and ball bearing embedded within the plug body for added metal detection performance. These plugs are detectable by conventional metal detection systems. Product samples 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:

Sample Part	Reading Type	Test Piece Equivalent	Recommended Minimum Sensitivity
Single BST Earplug	FERROUS	5.0 mm	5.0 mm
Single BST Earplug	NON FERROUS	2.5 mm	2.0 mm
Single BST Earplug	STAINLESS STEEL	3.0 mm	2.5 mm
Chord Only (Coiled)	FERROUS	4.0 mm	3.5 mm
Chord Only (Coiled)	NON FERROUS	3.5 mm	3.0 mm
Chord Only (Coiled)	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. © 2014 BS Teasdale & Son Ltd. All Content, Data & Images are owned by BS Teasdale & Son Ltd and are protected by international copyright law.

