



Detectable Silicone Earplugs | EP11003



Product Description

These fully metal detectable re-usable silicone earplugs are made from medical grade detectable latex free silicone rubber, these plugs are the optimum choice for the discerning user. Designed for maximum comfort and performance, the three flange plugs (SNR29) exert only sufficient pressure within the ear canal to ensure the required acoustic seal. 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 a two flanged variety.

These 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 of these metal components are completely encased within the detectable silicone plug. These detectable earplugs offer good attenuation throughout all frequencies, protecting the ears whilst displaying due diligence in the prevention of foreign body contamination.

Detectable Silicone Earplugs Advantages

- ✓ Detectable by in-line metal detection systems
- ✓ Highly visible colour for easy visual identification
- ✓ Designed for maximum comfort and performance
- ✓ SNR 29dB protection rating
- ✓ Manufactured from medical grade latex free silicone
- ✓ Displays due diligence in the prevention of foreign body contamination

Product and Packaging Information

Product Code	EP11003	Earplug Material	Silicone
Pack Weight	0.55kg	Cord Material	Metal Impregnated Silicone
Pack Size	100	Detectability	Metal Detectable
Colour(s)	Blue	Country Of Origin	China
Temperature Range	-60°C ~ 200°C	Commodity Code	39269097

Materials

Both the plugs and the cord are manufactured from medical grade, latex free, food safe silicone rubber, with a non-hazardous metal detectable additive and metal inserts.

These products are not designed to come in to direct contact with food and therefore do not come with any food contact approvals or certifications. They are to be used as personal protection to reduce the risk of foreign body contamination.

Safety Certificates / Approvals

EU Compliant	BRCGS Compliant	ISO 9001:2015
--------------	-----------------	---------------



Quality Statement

CE tested in accordance with European Standard EN 352-2:2002 and DIN EN 352-2:2003 according to the provisions of the European Directive 89/686/EEC on Personal Protective Equipment, and tested as food-safe.

Material Properties

Property Value	Typical Value	Test Method
Hardness	67 Shore A	ASTM D2240
Magnetic Pull	6.5mm	SEWI/700 ISS 2
Tensile Strength	9.0MPa	BS ISO 37
Elongation to Failure	340%	BS ISO 37
Tear Strength	15.7 N/mm	BS ISO 34-1 Method C
Compression Set (25% for 24 hours @ 150°C)	14.1%	BS 903 PT A6 type B

Instructions

Fitting Instructions - It is important your hands are clean before handling the plug. 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.

Hygiene Instructions - To prevent cross contamination, it is recommended to tie a knot at one end of the cord to designate its use in a specific ear.

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	2 KHz	4 KHz	8 KHz
Mean Attenuation	27.6 dB	29.1 dB	28.8 dB	31.0 dB	28.9 dB	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	24.5 dB	24.7 dB	26.0 dB	24.9 dB	30.2 dB	29.0 dB	33.2 dB

SNR = 29dB H = 29 dB M = 26 dB L = 26 dB

Tested to EN352-2:2002 / DIN EN 352-2:2003

Metal Detectability

Both the plugs and connecting cord are manufactured from metal detectable silicone rubber, with an added metal grip and ball bearing embedded within each plug body for added metal detection performance. The detectability of this product will vary based upon the metal detection systems being used and their calibration. Detectability performance will vary based on, but not limited to the following factors:

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

For this reason 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 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 system.

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. © 2023 BS Teasdale & Son Ltd. All Content, Data & Images are owned by BS Teasdale & Son Ltd and are protected by international copyright law.