

SMARTWEAR™

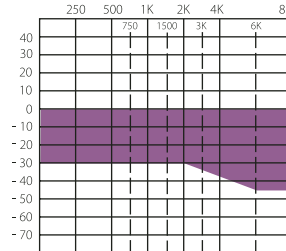
SFE Self-Forming Earmold

Device Features:

- Ultra-soft silicone body
- Nitinol Endoskeleton
- Conforms to unique topography of ear canal sizes from extra small (7mm cavum) to extra large (11mm cavum)
- Secure, comfortable fit
- Extended wear time
- Medical grade silicone body will not crack, shrink, or harden
- Double wall tubing for power fit

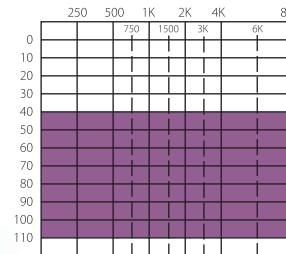


Close-up view of patented, thermally activated Nitinol stent.



Typical Attenuation

Noise Reduction Rating averages 34 dB



Fitting Range

Appropriate for a range of hearing losses from moderate to severe.

Device Overview:

The SmartWear™ SFE is a revolutionary advance in earmold technology that combines the convenience of non-custom earmolds with the security and comfort of a custom fit. The SmartWear™ SFE virtually eliminates the need for ear impressions as well as the delay of fitting while waiting for the delivery of a custom earmold.

Based on coronary stent technology, the SmartWear™ SFE utilizes the patented Memory Form® design, an ultra-soft silicone body containing a temperature-sensitive Nitinol® endoskeleton. Within seconds of insertion, normal body temperature activates the stent causing it to slowly expand and conform to the ear canal topography.

Nitinol® delivers precise radial force which results in controlled interfacial pressure distribution across the ear canal wall. The result is an acoustic seal that is secure, appropriate for a range of hearing losses from moderate to severe and extremely comfortable for extended wear time.

800.824.3021

There's so much to hear about.



General Hearing Instruments, Inc.
 175 Brookhollow, Harahan, LA
 800.824.3021, 504.733.3767
 www.generalhearing.com

SmartWear Fitting Guide

Based on coronary stent technology, the SmartWear SFE utilizes the patented Memory Form™ design: an ultra-soft silicone body containing a temperature-sensitive Nitinol endoskeleton. Non-custom prior to fitting, the SmartWear SFE senses the body temperature in the ear, and seeks the unique shape of the patient's ear canal.

The Nitinol endoskeleton delivers precise radial force, yielding balanced interfacial pressure across the ear canal wall. Because it never reaches total rigidity, the stent reacts dynamically to changes in the ear canal secondary to smiling, chewing or the like. The result is an acoustic seal that is secure, yet extremely comfortable for extended wear.

Fitting range:

The SmartWear SFE is equipped with double-wall #13 tubing. When combined with the dynamic stent, it is appropriate for a range of hearing losses up to severe.

Ear canal size range:

The SFE was designed to fit comfortably and securely in ear canals having an aperture (canal opening) of 7 mm (extra small) to 11 mm (extra large) in diameter. Studies have shown that these diameters cover a majority of the ear canals encountered.

Determining aperture diameter:

Utilize the EARGAGE™ developed by Aearo Company per ANSI 12.6-1997. The five ear-inserts range from X-Small (7 mm) through X-Large (11 mm) in one millimeter steps. Directions for use and cleaning are included in the EARGAGE package.

Fitting protocol:

Assess the desired tubing length in the normal manner. Attach the tubing to the BTE instrument in the normal manner. In cases of aperture diameters of 8 mm to 10 mm, insert the earmold into the ear in the normal manner. In most cases, it is not necessary to compress the stent before insertion. Once inserted, the stent will sense body temperature and expand in seconds to seal the ear canal.

In cases of an aperture diameter of 7 mm, it may be desirable to apply OtoEase or the like to facilitate insertion.

In cases of an aperture diameter of 11 mm, it may be desirable to apply mild heat to expand the stent. Allow the earmold to cool for a few moments, and then insert. The stent will be expanded, but malleable, facilitating the fitting session.

Cleaning and sanitizing:

Mild soap and water will serve to clean the SmartWear SFE. If sanitization is desired, a recognized anti-microbial such as Audio-Wipes can be used.



800.824.3021 **There's so much to hear about.**