

# SORDIN

QUALITY CHECK  
100%  
ACOUSTICALLY  
TESTED  
APPROVED

# SmartEar™ Impulse

## PROTECTIVE FILTER EARPLUGS

Using patented impulse filter technology, the Sordin SmartEar™ Impulse earplug reduces peak sound pressure levels produced by gun and rifle shots. Developed for military application and used by NATO soldiers, Sordin SmartEar is ANSI IPIL certified for impulse noise up to 166 dB where it provides 33 dB of attenuation. When sound peaks are not present, the earplug provides 19 dB SNR, ensuring voice and ambient noise can be heard with minimum occlusion effect.



**33 dB**

peak impulse  
reduction

SNR  
**19 dB**

sound  
attenuation



# SmartEar™ Impulse by Sordin

By allowing air into the ear to reduce ear canal irritation, the wearer retains sound directionality and spatiality, critical in hunting situations. Combined with its small size and comfortable medical grade ear tips, it is ideal for all-day use, fitting unobtrusively under communication headsets or earmuffs.

## A PERFECT FIT IS GUARANTEED

Medium and Large eartips included. (Filters are mounted in the large eartips.)

## HYGIENIC

Acoustic filters are fitted with advanced technology mesh, ensuring your ears will remain well ventilated at all times.

## HYPOALLERGENIC

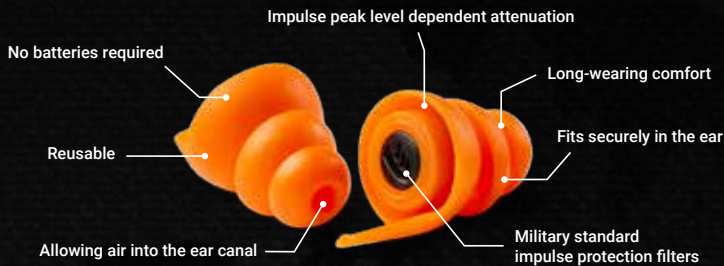
The earplug is made of medical grade TPE.

## VALUE FOR MONEY

SmartEar™ Impulse earplugs can be used multiple times.

## NATURAL SOUND

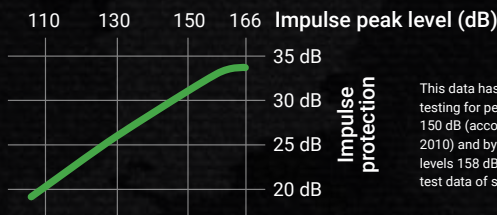
Natural hearing is preserved, which facilitates situational awareness.



## IPIL CERTIFICATION DATA

Impulse peak level (dB)	130	150	158	166
Impulse peak insertion loss (dB)	26.3	31.1	33.0	33.7

## OPEN MODE - IPIL CERTIFICATION GRAPH



This data has been acquired by testing for peak levels 130 dB and 150 dB (according to ANSI S12.42-2010) and by estimation for peak levels 158 dB and 166 dB (based on test data of similar products).

**Noise Reduction Rating 12 DECIBELS**  
(WHEN USED AS DIRECTED)

THE RANGE OF NOISE REDUCTION RATINGS FOR EXISTING HEARING PROTECTORS IS APPROXIMATELY 0 TO 30 (HIGHER NUMBERS DENOTE GREATER EFFECTIVENESS)

SORDIN AB, RÖRLÄGGARVÄGEN 8, SE-331 53 VÄRNAMO, SWEDEN Sordin SmartEar Impulse

Federal law prohibits removal of this label prior to purchase **EPA** LABEL REQUIRED BY U.S. EPA REGULATION 40 CFR Part 211, Subpart B

**INCLUDED** ear tip sizes (nominal diameter) **Medium 6-11 mm / Large 7-12 mm**

Sound Technology by **DYNAMIC EAR COMPANY** **CE 1974**

**DIM 12** Item no: 27170-07-S **EN 352-2:2020**

For additional information, visit [www.sordin.com](http://www.sordin.com) or contact Sordin AB, Rörlägggarvägen 8, SE-331 53 Värnamo, Sweden **UK CA**



SOUND REDUCTION	█	█	█	█	█	█	█	█	█
SPEECH CLARITY	█	█	█	█	█	█	█	█	█
SITUATIONAL AWARENESS	█	█	█	█	█	█	█	█	█
PEAK SOUND REDUCTION	█	█	█	█	█	█	█	█	█

(DE) wiederverwendbarer Ohrstöpsel (IT) tappi per le orecchie riutilizzabili (FR) bouchon d'oreille réutilisable (ES) tapones reutilizables (F) uudelleenkäyttävät korvatulpat (SE) återanvändningsbara öronproppar

CERTIFICATION DATA	SNR	H	M	L	NRR
Mean Attenuation (dB)	20.5	22.9	17.7	15.4	-
Standard Deviation (dB)	1.5	1.2	1.8	2.0	-
Value (dB)	19	22	16	13	12

Dynamic Ear Company declares that the hearing protection is in compliance with PPE regulation EU 2016/425. The full text of the EU declaration of conformity can be found at: [www.dynamic-ear.com/content/doc-so1.pdf](http://www.dynamic-ear.com/content/doc-so1.pdf)

## CE CERTIFICATION DATA - EU STANDARDS

F (Hz)	63	125	250	500	1000	2000	4000	8000
MA (dB)	13.1	14.1	14.3	14.7	18.1	26.7	22.2	29.3
SD (dB)	3.6	3.4	2.4	3.2	2.3	3.9	2.0	3.7
APV (dB)	9.5	10.7	11.9	11.5	15.8	22.8	20.2	25.6

## ANSI CERTIFICATION DATA - US STANDARDS

F (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
MA (dB)	15.2	15.1	15.6	19.0	28.1	24.4	21.5	17.0	27.5
SD (dB)	3.0	2.6	4.1	3.1	3.9	3.1	2.3	3.2	4.6
APV (dB)	9.2	9.9	7.4	12.8	20.3	-	17.6	-	15.5

The test according to EN 352-2:2020 and certification to the regulation EU 2016/425 and the production control module D was performed by PZT GmbH, Bismarckstrasse 264 B, 26389 Wilhelmshaven, #1974, Germany.

- It is important that the ear tip seals the ear canal correctly in order to achieve the designed attenuation level.
- Read instructions carefully before use.
- Two (2) year limited warranty.
- Developed and manufactured in The Netherlands.

**IMPORTANT:** Read instructions carefully before use. Manufacturer according to the regulation EU 2016/425: Dynamic Ear Company, Delftechpark 9, 2628 XJ, Delft, The Netherlands. Seller according to the regulation EU 2016/425: Sordin AB, Rörlägggarvägen 8, SE-331 53 Värnamo, Sweden