



The complete solution for the hearing health of professionals exposed to noise



COTRAL Premium

Customised hearing protection made of silicone

Double locking for a better hold in the ear

5-year guarantee

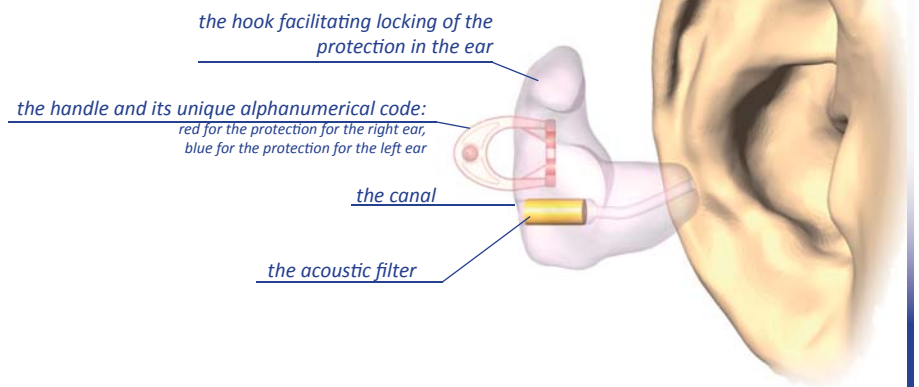
Made of hypoallergenic soft silicone, this protection is traditionally manufactured by prosthetists at COTRAL Laboratories based on the **impressions** taken by the Prevention Technician at your site.

Double locking with the hook allows **proper positioning of the protection in the ear**. Comfortable and easy to insert, it can be used by anybody in any type of activity.

For 6 you key points

- The ear impressions for each employee are taken at your company, according to your needs.
- Information is given to raise employee's awareness of the risks of noise during the impression taking.
- Simple maintenance to ensure that your protections remain effective and comfortable to wear.
- ATAG+ to select the filter according to your hearing ability, your environment and your function...
- Maintenance and monitoring of the efficacy of your acoustic filters for 100% safety.
- Follow-up of your fleet of protections in your personal customer area.

Description



Your guarantees

- Your protections are **certified** according to standard EN 352-2:2003.
- Your protections are **guaranteed for 5 years** (refer to the recommendations of use).
- An after-sales service at **www.cotral.co.uk "customer area"** or by telephone at + 33 (0) 2 31 69 05 13.

You will appreciate...

AUDITOOLS: A online box with free downloadable documents at www.cotral.co.uk for hearing health management.



Laboratoire COTRAL
BP100 14110 CONDE SUR NOIREAU
☎ +33 (0) 2 31 69 36 36
☎ +33 (0) 2 31 69 36 35
www.cotral.com

Labor COTRAL
Lebacher Straße 4 D-66113 SAARBRÜCKEN
☎ +49 (0)6 81 9963 637
☎ +49 (0)6 81 9963 621
www.cotral.de

Laboratorium COTRAL
8 Avenue des Arts B-1210 BRUXELLES
☎ + 32 (0)2 545 11 52
☎ +32 (0)2 545 11 46
www.cotral.be

Labor COTRAL
Bahnhofstrasse 52 CH-8001 ZÜRICH
☎ +41 (0)44 214 67 24
☎ +41 (0)44 214 65 19
www.cotral.ch



Laboratoire COTRAL
ZA Charles Tellier
F.14110 CONDE SUR NOIREAU



COTRAL Premium

Customised hearing protection made of silicone
6 certified models

SNR between 20 and 25 dB

Choose the **COTRAL Premium** protection that you need:

The acoustic filters

High-pitched sounds become harmful at 85 dB(A) and more, low-pitched sounds from 100 dB(A) upwards. The most sensitive frequencies are between 2000 Hz and 6000 Hz with a maximum at 4000 Hz.

Directly incorporated in the protection, the XS filter completely fulfil the needs for protection in an industrial environment. They offer marked attenuation at high frequencies and less attenuation at medium and low frequencies.

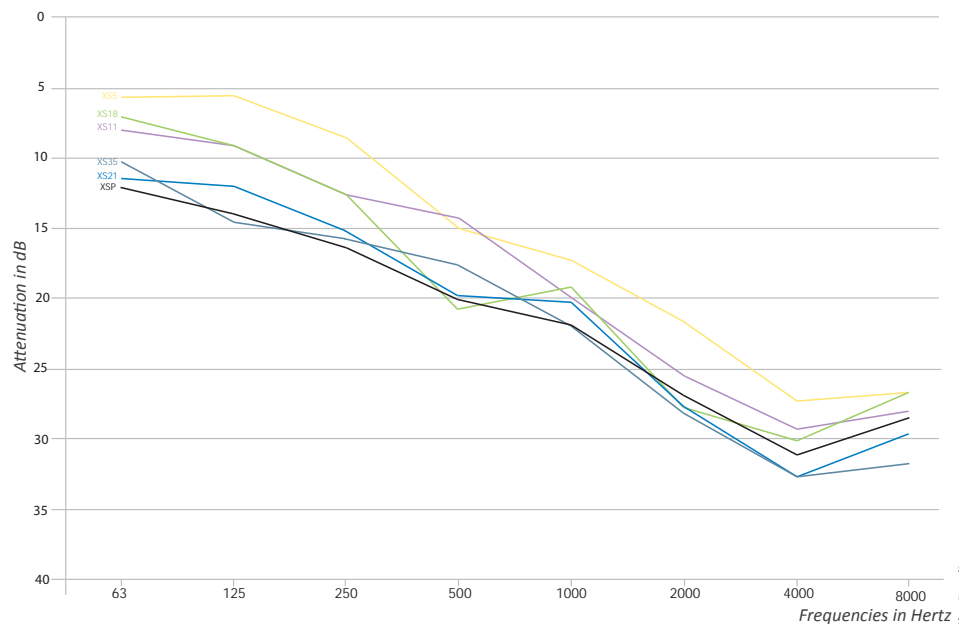
6 models are certified

(standard NF EN 352-2:2003).

It is essential for the protection to reduce noise to below the regulatory thresholds without the attenuation's being excessively high. One should not ignore the significance of communication and the need to hear warning signals.
Source: standard EN 458

		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	HML (dB)	SNR(dB)
XS5	Mf (dB)	9,7	10,6	12,4	19,5	23,0	30,2	32,4	34,1	H	23,1
	Sf (dB)	3,8	5,2	4,0	4,4	5,8	7,6	5,1	7,3	M	16,6
	APVf (dB)	5,8	5,4	8,4	15,1	17,2	22,6	27,3	26,8	L	11,0
XS11	Mf (dB)	12,9	13,5	17,7	19,2	24,4	30,2	34,4	35,8	H	25,4
	Sf (dB)	5,0	4,3	5,1	4,9	4,4	4,8	5,1	7,7	M	18,5
	APVf (dB)	8,0	9,1	12,6	14,3	19,9	25,5	29,3	28,0	L	14,1
XS18	Mf (dB)	13,0	14,6	17,8	24,6	24,2	32,9	35,2	34,1	H	26,2
	Sf (dB)	5,9	5,4	5,3	3,8	5,1	5,1	5,1	7,3	M	20,1
	APVf (dB)	7,1	9,1	12,5	20,8	19,2	27,8	30,1	26,8	L	14,9
XS21	Mf (dB)	16,9	18,0	20,9	25,2	25,9	32,2	36,8	35,3	H	27,2
	Sf (dB)	5,3	6,0	5,8	5,3	5,5	4,4	4,1	5,5	M	21,2
	APVf (dB)	11,5	12,0	15,2	19,9	20,3	27,8	32,7	29,8	L	17,3
XS35	Mf (dB)	15,2	18,0	19,5	22,9	25,9	32,2	37,2	35,5	H	27,9
	Sf (dB)	4,9	3,3	3,7	5,2	4,0	4,0	4,6	5,6	M	21,4
	APVf (dB)	10,3	14,7	15,8	17,7	21,9	28,2	32,6	29,9	L	17,8
XSP	Mf (dB)	20,7	21,2	22,3	24,9	26,6	33,5	36,7	37,2	H	27,2
	Sf (dB)	8,6	7,2	5,9	4,8	4,7	6,6	5,6	8,7	M	22,2
	APVf (dB)	12,1	14,0	16,4	20,1	21,9	26,9	31,1	28,5	L	18,5

Mf (dB) : Affaiblissement - Dämmung - gemiddelde demping - average attenuation
Sf (dB) : Ecart type - Standardabweichung - standaard afwijking - standard deviation
APVf (dB) : Mf - Sf



Choice of the filters

Each technician uses the ATAG+ analysis method. Developed by Laboratoire COTRAL, it allows selection of the filters according to the LEQ (mean intensity for 8 hours of exposure), the low and high frequencies, the wearing habits and the hearing losses of each user.



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