

ELACIN ClearSound

The ClearSound is the new generation of ELACIN hearing protectors. It is fitted with a newly developed (patented) noise filter that offers considerably better transparency for the higher frequencies. This means in practice that speech is much easier to understand and the wearer has a much better perception of work noises and warning signals.

This feature enables the ClearSound to offer high acoustic wearing comfort and eliminates the need to remove it to communicate. The broad range of filters includes lower attenuation values too, so that uncomfortable and dangerous over attenuation especially at lower noise levels can be avoided.

The ClearSound hearing protector is very compact and is fitted with a little grip. This makes it very easy to insert and remove the hearing protector. A simple to attach cord and shirt clip are supplied as standard.

MATERIAL

The ClearSound is made from turquoise coloured silicone material, with a degree of hardness of 60 Shore.

CHOICE OF FILTERS

Depending on the noise level, there is a choice of five different RC filters:

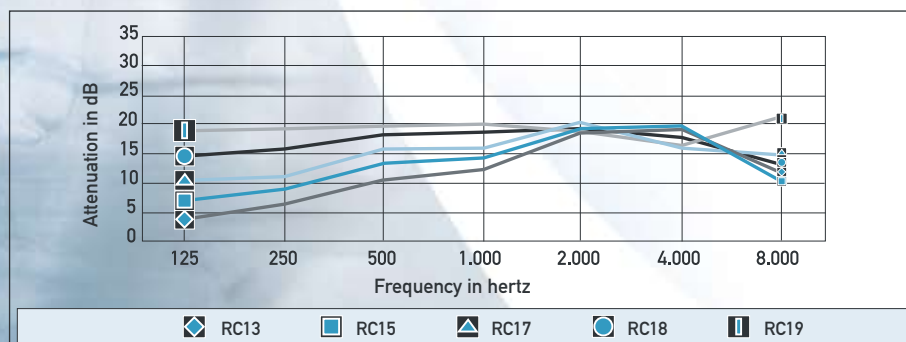
- RC13 filter (white)
- RC15 filter (beige)
- RC17 filter (grey)
- RC18 filter (brown)
- RC19 filter (black)

ATTENUATION CHARACTERISTICS

Below you will find the attenuation characteristics and graphics of the ELACIN ClearSound.

Freq.	: frequency in hertz
H	: high frequency attenuation (f > 2000 Hz)
M	: medium attenuation frequency (f > 500 and f < 2000 Hz)
L	: low attenuation frequency (f < 500 Hz)
SNR	: Single Number Rating, to be deducted from C-weighted noise level
Mf in dB	: average attenuation characteristics at given frequency f
S _f in dB	: standard deviation at given frequency f
APV _f in dB	: assumed Protection Value (M _f - 1x S _f) in dB, at given frequency f

APV _f (dB)	Freq. (Hz)	125	250	500	1000	2000	4000	8000	H	M	L	SNR
		RC 13	4,1	6,7	10,8	12,8	18,1	19,3	12,8	17	13	9
RC 15	7,3	9,6	13,7	14,4	19,7	19,6	12,3	17	15	12	17	
RC 17	9,5	12,0	16,7	16,7	20,6	16,4	14,3	17	17	14	18	
RC 18	14,4	16,0	17,8	18,3	19,1	18,6	14,0	17	18	17	19	
RC 19	19,0	19,2	19,7	20,0	19,4	16,4	22,3	18	19	19	20	



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APPLICATIONS

- In places where understanding speech is important.
- In places where the perception of work noises is important.
- In places where the perception of warning signals is important.
- For users whose hearing is already impaired.
- In environments with a moderate noise level.

SUITABLE FOR USE IN:

- industrial environments
- printing works
- the building industry
- the transport sector / haulage sector

BENEFITS

- Prevents over attenuation
- Prevents the “feeling of being cut off”
- Speech can be understood very well
- Work noises and warning signals can be perceived extremely well
- No need to remove it to communicate
- High acoustic and physical wearing comfort
- More alertness to approaching danger
- Improved acceptance and willingness to wear
- Added comfort and safety for people whose hearing is impaired
- Almost invisible in the ear
- Fitted with a little grip to ease insertion and removal
- Does not protrude from the ear, eliminating the risk of its being knocked
- Soft and light as a feather
- A perfect fit for long-term use
- Continuous ventilation of the auditory duct
- Choice of filter depending on the noise level
- Quick and easy to clean
- Optionally available with a metal detection ball (e.g. for the food industry)

