

MILITARY STANDARD  
AURAL PROTECTOR, SOUND

TO ALL HOLDERS OF MIL-STD-1431

1. The following page of MIL-STD-1431 has been revised and supersedes the page listed:

<u>New Page</u>	<u>Date</u>	<u>Superseded Page</u>	<u>Date</u>
4	31 January 1973	4	5 September 1969

2. Retain this notice page and insert before the Table of Contents.

3. Holders of MIL-STD-1431 will verify that page changes indicated above have been entered. The notice page will be retained as a check sheet. This insurance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or cancelled.

## CUSTODIANS:

ARMY - MU  
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## PREPARING ACTIVITY:

ARMY - MU  
(Project 4240-0421)

## REVIEW ACTIVITIES:

ARMY - EL

FSC 4240

## USER ACTIVITIES:

ARMY - ME, MI  
NAVY - CG

MIL-STD-1431  
31 January 1973

5.1.2.1 Suspension assembly - The suspension assembly consists of a headband, headpad, and attachment assembly.

5.1.2.2 Headband - The headband shall be designed so that the earcups can be adjusted vertically to suit the user. The tension of the headband will not cause the earcups to exert greater than  $4\frac{1}{2}$  pounds pressure against the user's head in the extended position of the vertical adjustment. Less tension will be acceptable provided the sound-attenuating qualities and wearer comfort are not sacrificed. All edges will be rounded.

5.1.2.3 Headpad - The headpad, when required, will provide cushioning between the headband and the user's head. The thickness of the pad will be sufficient to insure comfort and to prevent the headband from contacting the user's head. The material used for the headpad will not harden when exposed to a low temperature (minus 20°F) and will not become sticky when exposed to a high temperature (plus 160°F). The material shall be of a closed cell type that will not absorb moisture.

5.1.2.4 Attachment assemblies - The attachment assembly will be designed so that the earcups are permanently attached to the headband, or as an option shall be designed to allow sufficient adjustment between the headband and earcups so that the protector can be worn in all positions. The attachment assembly will allow sufficient vertical and angular movement of the earcups to insure that the earcups will fit over the ears and evenly against the user's head.

5.1.2.5 Earcup assembly - The earcup assembly will consist of earcups, seals, and fillers.

5.1.2.6 Earcups - Each circumaural protector will have two cups. The materials used to fabricate the earcups shall meet the requirements of this military standard. If an earcup is constructed of more than one piece, the pieces should be permanently joined together and all seams should be smooth. The earcups should be free from sharp corners. The size of the earcups shall be the minimum necessary to provide the attenuation specified. If the design of the earcups necessitates differentiation between the front and the back of the earcups, permanent designation markings will be provided. Earcups of protectors produced by the same manufacturer should be interchangeable within an individual model.

5.1.2.7 Earcup seals - The earcup seals should be designed as replaceable items and furnished as spares if required. The seals will be designed to conform to various head contours. The seals shall not be cemented to the earcups; however, the seals will remain attached to the earcups during normal usage of the circumaural protector but remain easily replaceable. Materials coming in contact with the skin will be of the closed-cell type and will not be treated in any manner that might cause skin irritations. The earcup seals may be foam, foam or grease filled, or fluid-filled provided they meet all other requirements.

Supersedes page 4 dated 5 September 1969.