

ISO 16976-7:2023-03 (E)

Respiratory protective devices - Human factors - Part 7: Hearing and speech

| Contents | | Page |
|--------------------|----------------------------------------------------|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions, and abbreviated terms | 1 |
| 3.1 | Terms and definitions | 1 |
| 3.2 | Abbreviated terms | 2 |
| 4 | Range of hearing and speech | 2 |
| 5 | Measurement of sound pressure | 3 |
| 6 | Physiology of the ear | 3 |
| 6.1 | General | 3 |
| 6.2 | Outer ear | 4 |
| 6.3 | Middle ear | 4 |
| 6.4 | Inner ear | 5 |
| 7 | Hearing loss | 5 |
| 7.1 | Conductive hearing loss | 5 |
| 7.2 | Ototoxicity | 5 |
| 7.3 | Presbycusis | 5 |
| 7.4 | Noise induced hearing loss (NIHL) | 5 |
| 7.5 | Other types of hearing loss | 6 |
| 7.6 | Other effects of noise | 6 |
| 7.6.1 | General | 6 |
| 7.6.2 | Effects on the wearer | 6 |
| 8 | Noise exposure limits | 8 |
| 8.1 | Workplace exposure levels and durations | 8 |
| 8.2 | Peak limit value | 11 |
| 9 | Speech and hearing difficulties | 11 |
| Bibliography | | 13 |