

ISO 17201-2:2006-07 (E)

Acoustics - Noise from shooting ranges - Part 2: Estimation of muzzle blast and projectile sound by calculation

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 3.1 | General | 1 |
| 3.2 | Directivity | 5 |
| 3.3 | Energy | 5 |
| 3.4 | Fraction | 7 |
| 3.5 | Projectile | 7 |
| 4 | Estimation model for source data of the muzzle blast | 8 |
| 4.1 | General | 8 |
| 4.2 | Estimation of chemical energy | 9 |
| 4.3 | Estimation of acoustic energy | 9 |
| 4.4 | Estimation of the Weber energy | 9 |
| 4.5 | Estimation of directivity | 9 |
| 4.6 | Estimation of the spectrum | 9 |
| 5 | Estimation model for projectile sound | 10 |
| 5.1 | General | 10 |
| 5.2 | Estimation of projectile sound source energy | 11 |
| 6 | Sound exposure | 12 |
| 7 | Uncertainty of estimation | 15 |
| Annex A (informative) Simple blast model for estimation of sound energy and its spectrum | | 16 |
| Annex B (informative) Quality of input data | | 18 |
| Annex C (informative) Examples for estimation of muzzle blast | | 21 |
| Annex D (informative) Estimation of sound exposure of projectile according to Figure 3 flowchart - - Example | | 29 |
| Bibliography | | 31 |