DIN EN ISO 17201-2:2006-10 (E)

Acoustics - Noise from shooting ranges - Part 2: Estimation of muzzle blast and projectile sound by calculation (ISO 17201 -2:2006)

Contents

Page

Foreword 2

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5
3.1 General 5
3.2 Directivity 9
3.3 Energy 9
3.4 Fraction 11
3.5 Projectile 11

4 Estimation model for source data of the muzzle blast 12
4.1 General 12
4.2 Estimation of chemical energy 13
4.3 Estimation of acoustic energy 13
4.4 Estimation of the Weber energy 13
4.5 Estimation of directivity 13
4.6 Estimation of the spectrum 13

5 Estimation model for projectile sound 14
5.1 General 14
5.2 Estimation of projectile sound source energy 15

6 Sound exposure 16

7 Uncertainty of estimation 19

Annex A (informative) Simple blast model for estimation of sound energy and its spectrum 20

Annex B (informative) Quality of input data 22

Annex C (informative) Examples for estimation of muzzle blast 25

Annex D (informative) Estimation of sound exposure of projectile according to Figure 3 flowchart - - Example 33

Bibliography 35