

ISO 13997:2024-10 (E)

Protective clothing - Mechanical properties - Determination of resistance to cutting by sharp objects

Contents

Page

- Foreword..... iv
- Introduction v
- 1 Scope..... 1
- 2 Normative references 1
- 3 Terms and definitions 1
- 4 Sampling..... 2
 - 4.1 General..... 2
 - 4.2 Textiles and other materials..... 2
 - 4.3 Gloves..... 2
 - 4.4 Conditioning..... 3
- 5 Test method..... 4
 - 5.1 Principle 4
 - 5.2 Test apparatus..... 5
 - 5.3 Calibration..... 9
 - 5.3.1 Beam balancing procedure 9
 - 5.3.2 Cutting speed adjustment..... 9
 - 5.3.3 Validation of blades..... 9
 - 5.4 Test procedure..... 10
 - 5.4.1 Specimen mounting..... 10
 - 5.4.2 Test procedure for measuring the cutting stroke length..... 11
 - 5.4.3 Test procedure for determining the calculated cutting force..... 11
 - 5.4.4 Calculations..... 12
- 6 Test report..... 12
- Annex A (informative) Inter-laboratory test data analysis 14
- Annex B (normative) Calculated cutting force determination..... 16
- Annex C (normative) Testing of the calibration material (see [5.3.3.1](#))..... 21
- Bibliography..... 22