DIN EN ISO 11393-1:2018-12 (E)

Protective clothing for users of hand-held chainsaws - Part 1: Test rig for testing resistance to cutting by a chainsaw (ISO 11393-1:2018)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **6**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **7**

4 Principles ... **8**

5 Test rig ... **9**
5.1 General ... 9
5.2 Power unit and connecting device ... 9
5.3 Saw unit ... 10
5.3.1 General ... 10
5.3.2 Components of saw unit ... 10
5.3.3 Release system ... 12
5.3.4 Instrumentation ... 12
5.3.5 Fixture for saw unit ... 13
5.4 Calibration pad mount ... 13
5.5 Calibration pad fixture device ... 14

6 Calibration materials ... **14**

7 Calibration of the test rig ... **15**
7.1 General ... 15
7.2 Starting up the rig ... 15
7.3 Chain stopping time ... 15
7.4 Measurement of chain speed ... 15
7.5 Calibration with clogging material (pads) ... 15
7.5.1 Conditioning of the saw chain ... 15
7.5.2 Attachment of calibration pad ... 16
7.5.3 Cut test ... 16

Annex A (normative) **Supplementary information on calibration pads** ... **17**

Annex B (normative) **Testing of calibration pads at 19 m/s and 21 m/s** ... **18**

Annex C (informative) **Method for checking the moment of inertia around pivot** ... **19**