ISO 26203-2:2011-10 (E)

Metallic materials - Tensile testing at high strain rates - Part 2: Servo-hydraulic and other test systems

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Symbols 1

5 Principle 3

6 Apparatus 3

7 Test pieces 3
7.1 Test piece geometry 3
7.2 Preparation of test pieces 4

8 Procedure and measurements 5
8.1 Velocity selection 5
8.2 Force measurement 5
8.3 Extension measurement 6
8.4 Data acquisition 6

9 Evaluation of tests 6
9.1 Stress-strain curve 6
9.2 Determination of key values 7
9.3 Strain rates 7
9.4 Determinationofflowcurves 8

10 Test report 9

Annex A (informative) Testing equipment 10

Annex B (informative) Examples of test piece geometries 12

Annex C (informative) Example of an engineering stress-strain curve 14

Bibliography 15