

ISO 26203-1:2010-02 (E)

Metallic materials - Tensile testing at high strain rates - Part 1: Elastic-bar-type systems

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Principles | 1 |
| 4 | Terms and definitions | 2 |
| 5 | Symbols and designations | 2 |
| 6 | Apparatus | 4 |
| 7 | Test piece | 5 |
| 7.1 | Test-piece shape, size and preparation | 5 |
| 7.2 | Typical test piece | 7 |
| 8 | Calibration of the apparatus | 8 |
| 8.1 | General | 8 |
| 8.2 | Displacement measuring device | 9 |
| 9 | Procedure | 9 |
| 9.1 | General | 9 |
| 9.2 | Mounting the test piece | 9 |
| 9.3 | Applying force | 9 |
| 9.4 | Measuring and recording | 9 |
| 10 | Evaluation of the test result | 11 |
| 11 | Test report | 12 |
| Annex A (informative) Quasi-static tensile testing method | | 14 |
| Annex B (informative) Example of one-bar method | | 16 |
| Annex C (informative) Example of split Hopkinson bar (SHB) method | | 23 |
| Bibliography | | 31 |