

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 | Terms and definitions | 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 | Determination of flow curves | 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 |