

ISO 10819:2013-07 (E)

Mechanical vibration and shock - Hand-arm vibration - Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand

| Contents | | Page |
|---|---|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 2 |
| 4 | Symbols and abbreviations | 2 |
| 5 | Measuring principle and equipment | 3 |
| 5.1 | General principle and setup | 3 |
| 5.2 | Measuring equipment | 4 |
| 5.3 | Vibration excitation system | 7 |
| 6 | Measurement conditions and procedure | 8 |
| 6.1 | Measurement conditions | 8 |
| 6.2 | Vibration signal | 10 |
| 6.3 | Test procedure | 11 |
| 7 | Evaluation of results | 13 |
| 7.1 | Calculation of transmissibility | 13 |
| 7.2 | Bare palm adaptor vibration transmissibility | 15 |
| 7.3 | Uncorrected glove vibration transmissibility | 16 |
| 7.4 | Corrected glove vibration transmissibility | 16 |
| 8 | Calculation of statistical values | 17 |
| 8.1 | General | 17 |
| 8.2 | One-third-octave vibration transmissibility | 17 |
| 8.3 | Frequency-weighted vibration transmissibility | 18 |
| 9 | Criteria for designating gloves as antivibration gloves | 18 |
| 9.1 | General | 18 |
| 9.2 | Vibration transmissibility of the gloves | 18 |
| 9.3 | Construction of the gloves | 19 |
| 10 | Test report | 21 |
| Annex A (informative) Examples of handles with force and acceleration measuring systems | | 23 |
| Bibliography | | 26 |