

# 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

---

<b>Contents</b>		<b>Page</b>
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