

DIN EN ISO 10819:2019-05 (E)

Mechanical vibration and shock - Hand-arm vibration - Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand (ISO 10819:2013 + Amd.1:2019) (includes Amendment :2019)

Contents

	Page
Foreword	3
[A1] European foreword to Amendment A1 [A1]	4
Annex ZA (informative) [A1] Relationship between this European Standard and the essential health and safety requirements of Regulation (EU) 2016/425 aimed to be covered [A1]	5
Foreword	6
Introduction	7
1 Scope	8
2 Normative references	8
3 Terms and definitions	9
4 Symbols and abbreviations	9
5 Measuring principle and equipment	10
5.1 General principle and setup	10
5.2 Measuring equipment	11
5.3 Vibration excitation system	14
6 Measurement conditions and procedure	15
6.1 Measurement conditions	15
6.2 Vibration signal	17
6.3 Test procedure	18
7 Evaluation of results	20
7.1 Calculation of transmissibility	20
7.2 Bare palm adaptor vibration transmissibility	22
7.3 Uncorrected glove vibration transmissibility	23
7.4 Corrected glove vibration transmissibility	23
8 Calculation of statistical values	24
8.1 General	24
8.2 One-third-octave vibration transmissibility	24
8.3 Frequency-weighted vibration transmissibility	25
9 Criteria for designating gloves as antivibration gloves	25
9.1 General	25
9.2 Vibration transmissibility of the gloves	25
9.3 Construction of the gloves	26
10 Test report	28
Annex A (informative) Examples of handles with force and acceleration measuring systems	30
[A1] Annex B (normative) Further requirements for protective gloves against vibration [A1]	33
Bibliography	36