

# DIN EN ISO 10326-1:2017-03 (E)

## Mechanical vibration - Laboratory method for evaluating vehicle seat vibration - Part 1: Basic requirements (ISO 10 326-1:2016)

---

<b>Contents</b>		<b>Page</b>
<b>European foreword</b>	.....	<b>3</b>
<b>Foreword</b>	.....	<b>4</b>
<b>Introduction</b>	.....	<b>5</b>
<b>1 Scope</b>	.....	<b>6</b>
<b>2 Normative references</b>	.....	<b>6</b>
<b>3 Terms and definitions</b>	.....	<b>6</b>
<b>4 General</b>	.....	<b>7</b>
<b>5 Instrumentation</b>	.....	<b>7</b>
5.1 Acceleration transducers	.....	7
5.2 Transducer mounting	.....	7
5.2.1 General	.....	7
5.2.2 Transducer mounting on the platform	.....	8
5.2.3 Transducer mounting on the seat pan and/or backrest	.....	8
5.3 Frequency weighting	.....	9
5.4 Calibration	.....	9
<b>6 Vibration equipment</b>	.....	<b>9</b>
6.1 Physical characteristics	.....	9
6.2 Control system	.....	10
<b>7 Safety requirements</b>	.....	<b>10</b>
<b>8 Test conditions</b>	.....	<b>10</b>
8.1 Test seat	.....	10
8.1.1 General	.....	10
8.1.2 Run-in periods for suspension seats	.....	10
8.1.3 Measurement of suspension travel and adjustment to weight of test person	.....	11
8.1.4 Inclination of backrest	.....	12
8.2 Test persons and posture	.....	12
8.3 Other possibilities	.....	13
<b>9 Test input vibration</b>	.....	<b>14</b>
9.1 General	.....	14
9.2 Simulated input vibration test	.....	14
9.3 Tolerances on input vibration	.....	15
9.4 Transfer function with sinusoidal vibration input	.....	15
9.5 Damping test	.....	15
9.5.1 Suspension seats	.....	15
9.5.2 Other seats	.....	16
<b>10 Test procedure</b>	.....	<b>16</b>
10.1 General	.....	16
10.2 Simulated input vibration test	.....	16
10.3 Damping test	.....	17
<b>11 Acceptance</b>	.....	<b>17</b>
<b>12 Test report</b>	.....	<b>17</b>

<b>Annex A (informative) Test method for assessing the ability of a seat suspension to control the effects of impacts caused by over-travel</b> .....	<b>19</b>
<b>Annex B (informative) Example of a simulated input test signal specified by the PSD</b> .....	<b>25</b>
<b>Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC [OJ L 157] aimed to be covered</b> .....	<b>27</b>
<b>Bibliography</b> .....	<b>28</b>