ISO 13325:2019-07 (E)

Tyres - Coast-by methods for measurement of tyre-to-road sound emission

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Symbols and abbreviated terms 1
4.1 LI 1
4.2 Classes of tyre 2

5 General 2

6 Test site 2

7 Instrumentation 3
7.1 Instrumentation for acoustical measurements 3
7.2 Microphones 3
7.3 Temperature measurement 3
7.3.1 General 3
7.3.2 Air temperature 4
7.3.3 Test surface temperature 4
7.4 Wind measurement 4
7.5 Speed measurement 4

8 Meteorological conditions and background sound 4
8.1 Meteorological conditions 4
8.2 Temperature correction 4
8.3 Background sound pressure level 5

9 Preparation and adjustments with respect to tyres 5

10 Vehicle method 6
10.1 General 6
10.1.1 Test vehicle 6
10.1.2 Wheel base 6
10.1.3 Other measures to minimize vehicle influence on measurements 6
10.1.4 Tyre load 6
10.1.5 Tyre inflation pressure 7
10.1.6 Vehicle operating condition 7
10.1.7 Speed range 7
10.1.8 Sound pressure level readings 7
10.1.9 Number of measurements 8
10.1.10 Recommended frequency spectrum measurement 8
10.2 Data processing 8
10.2.1 Temperature correction 8
10.2.2 Reference speeds 8
10.2.3 Normalization with respect to speed 8
10.3 Test report 9

Bibliography 12