

ISO/TS 13471-1:2017-03 (E)

Acoustics - Temperature influence on tyre/road noise measurement - Part 1: Correction for temperature when testing with the C PX method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
3.1	Acoustics	1
3.2	Tyres and road surfaces	2
3.3	Temperatures	2
4	Principles of the correction procedures	3
5	Temperature measurement equipment	4
6	Measurement methods	4
6.1	General	4
6.2	Measurement of air temperature	5
6.3	Measurement of road surface temperature (optional)	5
6.4	Measurement of tyre temperature (optional)	5
7	Temperature range	5
7.1	General	5
7.2	Temperature range within which the correction procedure is valid	5
8	Temperature correction procedure	5
8.1	Correction to CPX levels, LCPX	5
8.2	Temperature coefficient	6
8.3	Spectral correction	7
9	Measurement uncertainty assessment according to ISO/IEC Guide 98-3	7
9.1	General	7
9.2	Potential uncertainties	7
9.3	Uncertainty estimation of temperature correction	7
9.4	Sources of uncertainty	8
9.4.1	Temperature coefficients, t	8
9.4.2	Road surface category,	8
9.4.3	Temperature measurements, T	8
9.5	Estimation of uncertainties	8
10	Test report	9
Annex A (informative) Discrete temperature coefficient		10
Annex B (informative) Information about road surface types		11
Annex C (informative) Selection of temperature for normalization		13
Bibliography		14