DIN ISO 12219-3:2013-12 (E)

Interior air of road vehicles - Part 3: Screening metho d for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials - Micro-scale chamber method (ISO 12219-3:2012)

Contents

Page

National foreword 3

National Annex NA (informative) Bibliography 5

Introduction 7

1 Scope 8

2 Normative references 8

3 Terms and definitions 9

4 Principle 9

5 Apparatus 9

6 Test conditions 10
6.1 Temperature 11
6.2 Air or gas flow rate through the micro-scale chamber 11
6.3 Quality of supplied air or gas and background concentration of organic vapours 11
6.4 Control measures 11

7 Test specimens 11
7.1 General 11
7.2 Preparation of the test specimen 12

8 Cleaning micro-scale chamber components 12

9 Test method 12
9.1 Sampling media 12
9.2 Measuring background concentrations 13
9.3 Vapour sampling 13
9.4 Sealing the vapour sampling devices after gas sample collection 13
9.5 Analysis of vapour sampling devices 13
9.6 Storage of the test specimen between emissions tests (if required) 13
9.7 Cleaning the micro-scale chamber after use 13

10 Calculation of vapour concentrations and specific emission rates 14

11 Test report 15

12 Quality assurance/quality control 16

Annex A (informative) Micro-scale chamber principles 17

Annex B (informative) Micro-scale chamber -- Example 1 19

Annex C (informative) Micro-scale chamber -- Example 2 21

Annex D (informative) Micro-scale chamber -- Example 3 23

Annex E (informative) Assessment of VOC recoveries 25

Annex F (informative) Calculation of specific emission rates from micro-scale chamber air concentration 26

Bibliography 28