ISO/TS 19713-2:2010-07 (E)

Road vehicles - Inlet air cleaning equipment for internal combustion engines and compressors - Part 2: Fractional efficiency testing with coarse particles (5 m to 40 m optical diameter)

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Test equipment, accuracy and validation 4
4.1 Measurement accuracy 4
4.2 Test stand configuration 5
4.3 Test conditions 12
4.4 Validation 13
4.5 Reference air cleaner assemblies/air filter elements 14
4.6 Routine operating procedure 14

5 Fractional efficiency test 14
5.1 General 14
5.2 Test procedure 15

Annex A (informative) Test report 17

Annex B (normative) Efficiency data reduction 19

Annex C (normative) Pressure loss data reduction 26

Annex D (informative) Determination of maximum efficiency aerosol concentration 27

Annex E (normative) Accuracy requirements, validation and routine operation 28

Annex F (informative) Particle diameters 31

Annex G (normative) Aerosol isokinetic sampling 33

Annex H (normative) Fractional efficiency 36

Bibliography 37