

ISO/TS 12103-3:2020 (E)

Road vehicles — Test contaminants for filter evaluation — Part 3: Soot contaminant

Contents

| | |
|---------|---|
| | Foreword |
| | Introduction |
| 1 | Scope |
| 2 | Normative references |
| 3 | Terms and definitions |
| 4 | Symbols and abbreviated terms |
| 5 | Test contaminant definition |
| 5.1 | Test contaminant designation |
| 5.2 | Generation of soot aerosol |
| 5.3 | Particle size distribution |
| 5.4 | Stability of aerosol concentration and particle size distribution |
| 5.5 | Chemical composition |
| 6 | Analysis equipment and operating procedure |
| 6.1 | Analysis equipment |
| 6.2 | Particle size analysis procedure |
| 6.3 | Instrument calibration |
| Annex A | (normative) Particle size distributions by number |
| A.1 | General |
| A.2 | Lognormal distribution and Gaussian normal distribution |
| A.3 | Limits for acceptable distributions |
| Annex B | (informative) Handling and use of contaminant |
| Annex C | (informative) Concentration |
| Annex D | (informative) Flame operation and morphology |
| D.1 | Flame operation |
| D.2 | Morphology |
| Annex E | (normative) Thermal-optical transmission analysis |
| E.1 | Description of the thermal-optical transmission analysis |
| E.2 | Description of filter, conditioning and storage |
| E.3 | Description of sampling |
| Annex F | (informative) Air-to-fuel ratio |
| F.1 | Description of the air-to-fuel ratio and example calculations |