

Australian/New Zealand Standard™

Methods for sampling and analysis of ambient air

Method 9.16: Determination of suspended particulate matter—PM₁₀ continuous direct mass method using a tapered element oscillating microbalance monitor incorporating a filter dynamic measurement system (FDMS) unit

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EV-007, Methods for Examination of Air.

The objective of this Standard is to provide regulatory and testing bodies with a standard method for continuously monitoring suspended particulate matter changes of particles less than 10 micrometres in diameter (PM₁₀) in ambient air, providing near real time measurement of average particle concentration.

The requirements for instruments found to be suitable for using this method are given in the United States Environmental Protection Agency (US EPA) Title 40, Part 53 of the Code of Federal Regulations (40 CFR Part 53)—*Ambient Air Monitoring Reference and Equivalent Methods, Subpart D—Procedures for Testing Performance Characteristics of Methods for PM₁₀*. Elements of this Standard have been drawn from the September 2009 document *Standard Operating Procedure for the Continuous Measurement of Particulate Matter, Thermo Scientific TEOM® 1405-DF Dichotomous Ambient Particulate Monitor with FDMS®, Federal Equivalent Method EQPM-0609-182 for PM_{2.5}*.

FOREWORD

This Standard sets out the operational requirements for the continuous determination of PM₁₀ in ambient air using a tapered element oscillating microbalance (TEOM) monitor incorporating a filter dynamic measurement system (FDMS) unit. The FDMS unit provides a representative determination of the particulate matter mass concentration as it exists in the ambient air by accounting for both non-volatile and volatile particulate matter components.

The TEOM monitor offers continuous operation, providing near real-time measurements for assessment and study of the temporal changes in ambient suspended particulate matter.

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