Australian Standard®

Stationary source emissions

Method 2: Determination of total particulate matter—Isokinetic manual sampling—Gravimetric method

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH/19 on Methods for Examination of Air and is based on ISO 9096, *Stationary source emissions—Determination of concentration and mass flow rate of particulate material in gas-carrying ducts—Manual gravimetric method*. However, it is not technically equivalent to ISO 9096. The major differences are as follows:

(a) Allowance of a wider range of nozzle designs (both shape and diameter).

(b) Different accuracy requirements for some of the apparatus, e.g. flowrate measuring devices, moisture measuring devices, pressure gauges.

(c) Specific configuration of apparatus to one of the six shown in the Standard. Some configurations ensure that gasmeters exhaust to atmosphere, with flowrate devices located upstream of the gasmeter, so that virtual atmospheric pressure exists within the gasmeter.

Some requirements in ISO 9096 were considered inappropriate, when related to the variable parameters usually encountered on day to day field work.

The Committee also paid special attention to BS 893, *Method for the measurement of the concentration of particulate material in ducts carrying gases* and BS 3405, *Method for measurement of particulate emission including grit and dust (simplified method)*.

The term 'normative' has been used in this Standard to define the application of the appendix. A 'normative' appendix is an integral part of a Standard.

As a result of a consensus among representatives of the Joint Committee, this Standard is produced as an Australian Standard.

METHOD

1 SCOPE This Standard sets out an isokinetic manual gravimetric method for the determination of particulate matter emitted from stationary sources. The method provides a measure of both the concentration and mass flowrate of particulate matter passing through a stack or duct over the sampling period employed.