

# Australian Standard™

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## Cleanrooms, workstations, safety cabinets and pharmaceutical isolators—Methods of test

### Method 12: Determination of temperature in work zones

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**1 SCOPE** This Standard sets out the method for determining temperature within the work zone of cleanrooms under working conditions.

**2 REFERENCED DOCUMENTS** The following documents are referred to in this Standard:

AS

1386 Cleanrooms and clean workstations

1386.1 Part 1: Principles of clean space control

1807 Cleanrooms, workstations, safety cabinets and pharmaceutical isolators—  
Methods of test

1807.0 Part 0: List of methods and apparatus

**3 DEFINITIONS** For the purpose of this Standard the definitions given in AS 1386.1 and AS 1807.0 apply.

**4 PRINCIPLE** Measuring (or measuring and recording) instruments are positioned at a number of predetermined points and the temperature is measured and recorded at specified intervals.

**5 APPARATUS** Temperature measuring devices as specified in AS 1807.0 are required.

**6 PROCEDURE** The procedure shall be as follows:

- (a) For non-laminar flow cleanrooms, divide the work zone into grids of equal area having dimensions of 3 m × 3 m or smaller, as appropriate. For laminar flow cleanrooms, unless otherwise specified, select test positions in front of each module on the entrance plane and their corresponding points on the exit plane. All test points should be at normal working level.
- (b) Place temperature measuring devices at the centres of each grid area in one row across the room to serve as reference points.  
NOTE: Select row direction to include effects of all airconditioning systems.
- (c) Operate the complete system for at least 2 h (or until steady-state readings are obtained at the reference row measurement point), recording all measurements at least every 15 min.
- (d) Relocate measurement points and repeat measurements and recordings until a representative range of grid points is measured.
- (e) Prepare a diagram showing location of points and relevant temperature readings.