

# Australian Standard<sup>®</sup>

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## Test methods for limes and limestones

### Method 9.1: Solid content Convection—oven

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**1 SCOPE** This Standard describes a method for the determination of the content of dry hydrated lime solids as a percentage of the wet mass of a milk of lime suspension.

NOTE: AS 2830.1 is recommended for use in conjunction with this test method.

**2 REFERENCED DOCUMENT** The following document is referred to in this Standard:

AS

2830 Good laboratory practice

2830.1 Part 1: Chemical analysis

**3 PRINCIPLE** A sample of a known mass of approximately 100 grams is dried at a specified temperature and for a specified time. The resultant dry residue is weighed and the percentage of dry mass is calculated.

#### 4 APPARATUS

**4.1 Drying oven**—capable of maintaining a temperature of  $80 \pm 10^\circ\text{C}$ .

**4.2 Balance**—of at least 400 g capacity and accuracy of 0.03 g.

**4.3 Suitable heat and corrosion resistant container**—such as glass or porcelain, having a capacity of about 200 ml.

**4.4 Desiccator**—containing anhydrous silica gel.

**4.5 Blender.**

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

- (a) Determine the mass of a clean dry container to the nearest 0.01 g. Record as  $M_c$ .
- (b) Using blender, thoroughly mix sample.
- (c) Pour at least 100 g of well mixed sample into the container and determine mass to 0.01 g. Record as  $M_{wc}$ .
- (d) Place container and contents in drying oven and dry for 24 h.
- (e) Remove container and contents from oven and place in desiccator to cool.
- (f) Determine mass of container and dried contents to 0.01 g. Record as  $M_{dc}$ .