



Transport
Roads & Maritime
Services

Test method T865

Non-volatile content of concrete admixtures and curing compounds

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Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	Jun 2001
Ed 2/ Rev 0	All	Reformatted RMS template	J Friedrich	November 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T865 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T865

Non-volatile content of concrete admixtures and curing compounds

1. Scope

This test method sets out the procedure for determining the non-volatile content of concrete admixtures and concrete curing compounds.

2. Apparatus

- (a) A thermostatically controlled oven with good air circulation capable of maintaining a temperature of 105°C.
- (b) A balance, of not less than 200 g capacity, accurate and readable to 0.0001g.
- (c) Shallow, flat bottomed circular dishes of approximately 75 mm diameter. The lids from single seal, 250 mL paint tins have been found to be suitable.

3. Procedure

- (a) Shake the sample container end over end so as to obtain a uniformly mixed sample.
- (b) Clean the dish of any processing oils etc by wiping with tissues and obtain its mass to the nearest 1 mg, (M_1). The determination is performed in duplicate.
- (c) Weight accurately into the dish approximately 2 g of sample (mass M_2).
- (d) Place dishes into the oven and heat at $105 \pm 3^\circ\text{C}$ for 3 hours.
- (e) Remove from the oven, cool in a dessicator and weight dish plus residue (M_3).

4. Calculation and Reporting

Calculate the percentage of the non-volatile matter to the second decimal place as follows:

$$\text{Percentage Non-Volatile Matter} = \frac{M_3 - M_1}{M_2 - M_1} \times 100$$

Where:

M_1 = Mass of dish

M_2 = Mass of dish plus sample.

M_3 = Mass of dish plus residue.

Report the non-volatile matter to the first decimal place.

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