Transport Roads & Maritime Services

NSW GOVERNMENT

# Test method T622

## Volatile content of cold mix

**NOVEMBER 2012**

# Revision Summary

| Ed/Rev Number | Clause Number | Description of Revision | Authorisation | Date |
|---|---|---|---|---|
| | | Reformatted and Revision Summary Added. 4(c) and 5 Altered | D.Dash | Jan 2000 |
| Ed 2/ Rev 0 | All | Reformatted RMS template | J. Friedrich | November 2012 |
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Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T622 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

# Test method T622

# Volatile content of cold mix

## 1. Scope

(a) This test method sets out the procedure to determine the volatile content of cold mix.

## 2. Apparatus

(a) Suitable steel tray, trowel, spatula and scoop for mixing.

(b) Suitable quartering equipment.

(c) A balance of suitable capacity with a limit of performance 0.005g.

(d) Glass Petri dishes (100 mm diameter).

(e) Suitable gloves.

(f) A thermostatically controlled, ventilated, thin film oven or suitable conventional oven with a range of 163 ± 1 $^{O}$C.

## 3. Preparation of Sample

Transfer the sample to the mixing tray, break up any lumps and mix well. Reduce the size of the sample by quartering to about 100 g.

## 4. Procedure

(a) Weigh the glass Petri dish and record the weight ($M_d$) to the nearest 0.005 g.

(b) Place the sample in the Petri dish. Weigh and record the weight ($M_{dsb}$) to the nearest 0.005 g.

(c) Heat the sample for 6 hours in a 163 ± 1 $^{O}$C oven. Ensure the ventilation slot is opened and does not exhaust into the laboratory.

(d) After the 6 hour heating period remove the sample from the oven and allow to cool to room temperature.

(e) Re-weigh the sample in the Petri dish and record the weight ($M_{dsa}$) to the nearest 0.005 g.

## 5. Calculations

Percentage of volatiles in the mix.

$$V = \frac{M_{dsb} - M_{dsa}}{M_{dsb} - M_d} \text{ x } 100\ \%$$

**Where:**

$M_{dsb}$ = Mass of sample and dish before heating (g)

$M_{dsa}$ = Mass of sample and dish after heating (g)

$M_d$ = Mass of the petri dish (g)

## 6. Reporting

(a) Report the percentage of volatiles in the mix to the nearest 0.1 %.