

DETERMINATION OF ASH CONTENT OF MOULDED MATERIALS**Application**

This method is used to determine the ash content of moulded materials used in various automotive parts.

Apparatus Required**Analytical Balance**

With an accuracy of 0.1 mg.

Muffle Furnace

Capable of maintaining a temperature of 650 +/- 10 °C.

Porcelain Crucible

With cover.

Desiccator**Conditioning and Test Conditions**

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Procedure

1. Fire a crucible and cover in the muffle furnace of 650 +/- 10 °C for 30 minutes, cool in a desiccator and weigh to the nearest 0.1 mg.
2. Weigh a moulded part to the nearest 0.1 mg (maximum 3 g) and transfer to the crucible using tweezers. If the part is heavier than 3 g, cut off representative pieces to approx 3 g.
3. Place covered crucible in cool muffle furnace, set at 650 +/- 10 °C and start furnace.

Date	Action	Revisions
2001 03 20		Editorial – no technical change A. Cockman
1994 02 28		

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4. Remove cover after temperature reaches 650 °C. Burn to constant weight.
5. Cover the crucible, cool in a desiccator and weigh.

Evaluation

$$\text{Ash \%} = \frac{\text{Weight of Ash (g)}}{\text{Weight of Sample (g)}} \times 100$$

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.