

DETERMINATION OF ASH CONTENT OF MOLDED MATERIALS

Application

This procedure is used to determine the ash content of molded materials used in various automotive parts.

Apparatus Required

Analytical Balance

Sensitive to .1 mg.

Muffle Furnace

Capable of maintaining a temperature of 1500 +/- 20 °F.

Crucible

Standard porcelain with cover.

Desiccator

Charged with calcium chloride.

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 at 1500 °F for 30 minutes, cool in a desiccator and weigh to the nearest 0.1 mg.
2. Weigh a molded part to the nearest 0.1 mg (3 g max) and transfer to the crucible with tweezers. If the part is larger than 3 g, cut off representative pieces to approximately 3 g.
3. Place covered crucible in cold muffle furnace set at 1500 °F and start furnace.

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4. Remove cover after temperature reaches 1500 °F. Burn to constant weight.
5. Cover the crucible, cool in a desiccator and weigh.

$$\frac{\text{weight of ash}}{\text{weight of sample}} \times 100 = \% \text{ ash}$$

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.