

**STANDARD TEST METHOD**

**ASH CONTENT - ORGANIC MATERIALS**

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**SCOPE:**

This test is to determine the ash content of organic materials.

**APPARATUS:**


1. Balance accurate to 0.0001 g.
2. Muffle furnace (heating capacity to 1200°C)
3. Previously ignited porcelain crucible dimensions: 50mm diameter, 32mm high.
4. Desiccator.

**PROCEDURE:**

1. Weigh a clean, dry crucible.
2. Weigh out appropriate amount of sample (as stated on the Raw Material Specification Sheet) into a tared porcelain crucible (1.5 - 2.5 g).
3. Reweigh the crucible with sample.
4. Place in muffle furnace at 760 °C ± 20°C for 1 ½ hours unless otherwise specified.
5. Remove. Allow to cool slightly then place it in desiccator until cold and re-weigh.
6. Place back in muffle furnace for 1/2 hour. Cool and weigh again. Repeat until constant weight is achieved.

**CALCULATION:**

$$\% \text{ Ash} = \frac{\text{Wt. of sample remaining}}{\text{Wt. of original sample}} \times \frac{100}{1}$$

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