

RAW MATERIAL TEST METHOD

LOSS ON IGNITION

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SCOPE:

For determining the per cent loss on ignition of solid materials.

APPARATUS:


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

PROCEDURE:

1. Weigh a clean dry crucible (W1).
2. Add the specified amount of sample to the crucible. Re-weigh to obtain an accurate combined weight of crucible + sample (W2).
3. Check that the muffle furnace is at the specified test temperature and then place crucible inside for the specified time.
4. Remove the crucible from the furnace, allow to cool slightly then place it in a desiccator until cold.
5. Re-weigh the crucible and contents (W3).

CALCULATION:

$$\text{Loss on Ignition} = \frac{W2 - W3}{W2 - W1} \times 100$$

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