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**Product Name :**  
Ash Content Apparatus

**Product Code :**  
SCHOOL-FLE910013



**Description :**

Ash Content Apparatus

**Technical Specification :**

**Procedure:**

An Ash test involves taking a known amount of sample, placing the weighed sample into a dried / pre-weighed porcelain crucible, burning away the polymer in an air atmosphere at temperatures above 500°C, and weighing the crucible after it has been cooled to room temperature in a desiccator.

Ash residue remaining in the crucible is considered filler unless the residue is less than 1%.

Residues of less than 1% are typically the result of additives that did not burn off.

**Data:**

The Ash test result is expressed as % ash.

A magnified optical examination of the ash residue is performed to determine if the ash is glass, mineral, or a combination of both.

The total ash content equals the weight of the ash divided by the weight of the original sample multiplied by 100%.

Specifications:

Internal Chamber Size: Width 10cm x Height 10cm x Depth 22.5cm

System Status: Digital

Heating: Through custom high grade nichrome wire

Temperature Controller: Micro processor based double display digital PID controller

Temperature Range: Ambient to 950°C

Temperature Accuracy:  $\pm 5^{\circ}\text{C}$  or better

Timer: Micro processor based double display digital timer at optional

Timer Range: Up to 999.9 Seconds / Minutes

Safety MCB / Fuse: Fuse available on electric panel

Insulation: 100mm double wall thick cera-wool insulation

Power Supply: 230V AC, Single phase, 50Hz

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**School Educational Instruments**

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