

**Product Name :**  
Astra Scientific Ash Content Apparatus

**Product Code :**  
FuelTesting0022



**Description :**

Astra Scientific Ash Content Apparatus

**Technical Specification :**

Standard: ASTM D2584, ASTM D5630, ISO 3451

**Scope:** An Ash test is used to determine if a material is filled. The test will identify the total filler content. It cannot identify individual percentages in multi-filled materials without additional test procedures being performed. An ash test cannot be used to determine the percent carbon fiber or percent carbon black since carbon burns off during the Ash test.

**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 For K-MF-01 Width 10cm x Height 10cm x Depth 22.5cm

System Status Digital

Temperature Controller Micro processor based double display digital PID controller

Heating Through custom high grade nichrome wire

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

Mat. Of Construction Inner chamber: Tough treated ceramic

Outer chamber: Heavy CRC dual side powder coated

Power Supply 230V AC, Single phase, 50Hz



## Astra Scientific

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