

# ASTM D2866

## Milestone Application Note for Ashing – High Throughput - Officials



### Summary

This procedure covers the determination of total ash content of activated carbon samples according to ASTM D2866 method.

### Instrumentation

**Milestone PYRO** microwave system

**HighThroughput** muffle furnace

Crucibles (ceramic, quartz, quartz fibre)

Analytical balance ( $\pm 0,0001\text{g}$ )

Diseccator

Spatula



### Sample amount

Sample weight	1-5 g (according to the expected ash content)
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### Procedure

1. Place a clean crucible on the balance plate, tare it and weigh the sample.
2. Place the crucible into the preheated furnace.
3. Remove the crucible from the furnace and cool it in dissector.
4. Place the crucible on the balance plate and take the weigh.
5. Calculate the ash residue.

### Microwave program

Step	Time	T1	Power	Vent.
1	00:35:00	650°C	1800 W	*
2	02:00:00*	650°C	1800 W	*

\* Ashing time must be extended until all the carbon is removed.

### Notes

The crucible before use must be at constant weight.

**All modifications to the present method must be agreed with Milestone Application Specialist.**

### General precautions

Always use hand, eye and body protection when operating with the microwave system.

Subject to change without notice.  
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