

# General ashing method for environmental samples



Milestone Application Note for Ashing – High Throughput - Environmental

## Summary

This method represents a guideline for the ashing of environmental samples with the Milestone PYRO microwave muffle furnace.

This procedure may need to be optimized to match your specific analytical goals.

## Instrumentation

**Milestone PYRO** microwave system

**High Throughput** muffle furnace

Crucibles (quartz, ceramic, metal, glass fibre)

Analytical balance ( $\pm 0,0001$ g)

Disseccator

Spatula



## Sample amount

Sample weight	2-10 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 disseccator.
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	00:45:00	600°C	1800 W	*
2	00:30:00	600°C	1800 W	*

## 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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