

General ashing method for Petrochemicals

Milestone Application Note for Ashing – UltraFAST - Petrochemicals



Summary

This method represents a guideline for the ashing of Petroleum products 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

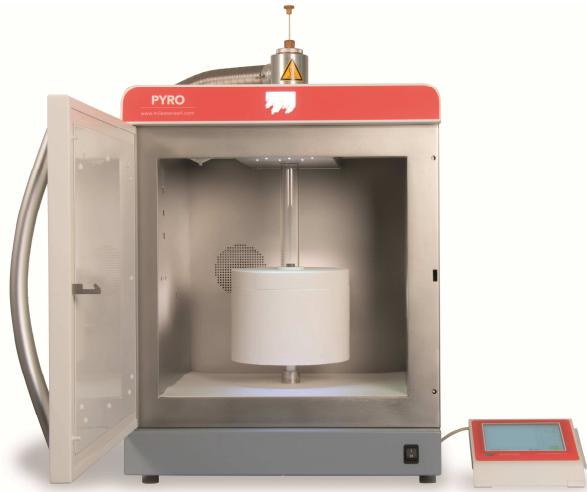
UltraFAST muffle furnace

Crucibles (quartz, ceramic, metal)

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

Disseccator

Spatula



Sample amount

Sample weight	1-2 g
N° crucibles	5 (max)

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.

General precautions

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

Microwave program

Step	Time	T1	Power	Vent.
1	00:01:00	250°C	1800 W	*
2	00:40:00	250°C	1800 W	*
3	00:05:00	775°C	1800 W	*
4	01:00:00	775°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.

Subject to change without notice.
For additional information please contact
application@milestonesrl.com

