



Systems

Phoenix BLACK

Equipment

100 mL Quartz Fiber Crucibles
Analytical Balance
Gloves
Tongs

Sample Preparation

None.

Procedure

1. Program a "Standard" method with calculation mode "LOI" in the Phoenix BLACK using parameters located in "Stages" section and allow furnace to reach set temperature.
2. Weigh a crucible that has been preashed for at least 10 minutes at set temperature and record weight.
3. Weigh ~5 grams of sample and record weight.
4. Place crucible in furnace and ash for designated dwell time.
5. Reweigh crucible containing ash and record weight.
6. Calculate percent LOI:
 $(\text{Initial Weight} - \text{Final Weight}) / \text{Initial Weight} \times 100$

Parameters

Stage	Dwell Time (minutes)	Temperature (°C)	Sample Size (g)
1	5	600	5

Notes

None.

*The above parameters are suggested starting points and may need to be modified to meet certain product specifications.