

ASTM D482

Milestone Application Note for Ashing – High Throughput - Officials



Summary

This procedure covers the determination of ash from distillate and residual fuels, gas turbine fuels, crude oils, lubricating oils, waxes, and other petroleum products according to ASTM D482 method.

Instrumentation

Milestone PYRO microwave system

HighThroughput muffle furnace

Large quartz crucibles (180 mL)

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

Disseccator

Spatula



Sample amount

Sample weight	20-50 g (according to the expected ash content)
Nº of crucibles (max)	2
Total sample amount (max)	50 g

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	00:15:00	250°C	1000 W	***
2	01:00:00	250°C	1000 W	***
3	00:30:00	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

General precautions

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

