

# Method for cement

Milestone Application Note for Acid Digestion SK-Geochemistry-69



## Summary

This method represents a guideline for the microwave acid digestion of Method for cement samples with the Milestone ETHOS UP and ETHOS EASY systems. This procedure may need to be optimized to match your specific analytical goals.

## Instrumentation

Milestone ETHOS UP or ETHOS EASY microwave units, SK-15 high-pressure rotor, T1 temperature control. Options T2 temperature control and P1 or P2 pressure control.



## Sample weight and reagents

Sample weight	Up to 100 mg
Reagents	2 mL HNO <sub>3</sub> 6 mL HCl 1 mL H <sub>3</sub> PO <sub>4</sub> 1,5 mL HBF <sub>4</sub> *

or

Sample weight	Up to 100 mg
Reagents	2 mL HNO <sub>3</sub> 2 mL HCl 3 mL H <sub>3</sub> PO <sub>4</sub> 3 mL HBF <sub>4</sub> *

\*H<sub>3</sub>BO<sub>3</sub> : HF = 0,4 g : 1 mL

## Microwave program

Step	Time	T1	Power
1	00:20:00	230C	1800 W*
2	00:15:00	230C	1800 W*

Subject to change without notice.  
For additional information please contact  
[application@milestonesrl.com](mailto:application@milestonesrl.com)

## General precautions

\*Use only up to 500 W for runs with 3 or less vessels simultaneously.

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

