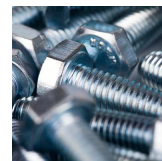


Al – Si

Milestone Application Note for Acid Digestion SK-Metal-039



Summary

This method represents a guideline for the microwave acid digestion of Al – Si 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 250 mg
Reagents	3 mL H ₃ PO ₄ 5 mL HCl 2 mL HBF ₄ *

* H₃BO₃ : HF = 0,4 g : 1 mL

Microwave program

Step	Time	T1	Power**
1	00:20:00	220°C	1800 W**
2	00:15:00	220°C	1800 W**

** Power settings

The power of the system must be set according to the table below :

3 or less vessels	800 W
4-8 vessels	1200 W
9-15 vessels	1800 W

General precautions

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

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

