

Car Catalyst (Al₂O₃ 60%, Ce 20% Zr 10%)



Milestone Application Note for Acid Digestion SK-Ceramic-018

Summary

This method represents a guideline for the microwave acid digestion of Car catalyst 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 1° Step	2 mL HNO ₃ 1 mL HF 8 mL HCl
Reagents 2° Step	1 g H ₃ B ₃ O ₃

Microwave program

1° Step

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



2° Step

Step	Time	T1	Power
1	00:15:00	200°C	1800 W*
2	00:15:00	200°C	1800 W*

Subject to change without notice.
For additional information please contact
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.

