





Ceramic

(40% SiO₂, 12% Na₂O, 11% B, 10% Co₃O₄, 8% Al₂O₃, 4% TiO₂)

Sample Category: Inorganic Compounds

Sample Requirements

Sample Weight: 0.2g

Reagents: 5mL Conc. HNO₃, 2mL Conc. HF Vessels: 35mL glass, quartz, and Teflon™ lined

Microwave Heating Program

Control Style: Ramp To Temperature

Pressure Mode: Inorganic

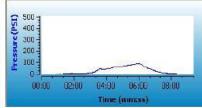
Recommended Equipment



Discover SP-D

Stage	Temp (°C)	Ramp Time	Hold Time	Pressure (psi)	Power (W)	Stirring
1	200	4:00	2:00	400	300	Med







Notes:

1. If using a vial other than the recommended choice, adjust sample size and pressure limit to values appropriate for the vessel chosen.

Safety Precautions for Working with Samples Requiring HF

- 1. The instrument must be placed in a hood and the SP-D HF Scrubber must be installed.
- 2. Sample mass must be ≤ 0.3 grams for organic samples and ≤ 0.5 grams for inorganic
- 3. The volume of HF required for total digestion may vary depending upon the sample matrix. Do not exceed 3 mL of total HF volume in the 35 mL Teflon lined vials.
- 4. It is recommended that Personal Protective Equipment (PPE) for handling HF include chemical splash goggles with a safety shield, lab coat with chemical splash apron, and heavy weight nitrile or rubber gloves.

General Precautions:

This procedure is a reference for sample digestion using a CEM System and may need to be modified or changed to obtain the required results on your sample

