

# **Stainless Steel**

Sample Category: Metallurgical

## Sample Requirements

Sample Weight: 0.3g Reagents: 2mL Conc. HNO<sub>3</sub>, 8mL Conc. HCl, 2mL Conc. HF Vessels: 35mL glass, quartz, and Teflon<sup>™</sup> lined

### **Microwave Heating Program**

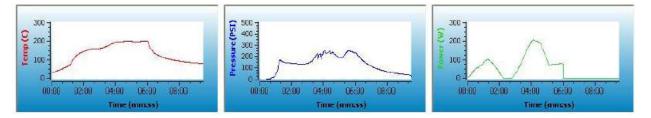
Control Style: Ramp To Temperature Pressure Mode: Organic

## **Recommended Equipment**



**Discover SP-D** 





#### Notes:

- 1. If using a vial other than the recommended choice, adjust sample size and pressure limit to values appropriate for the vessel chosen.
- 2. The addition of concentrated HCl is appropriate for the stabilization of Ag, Ba and Sb, and high concentrations of Fe and Al in solution. The amount of HCl will vary depending on the matrix and the concentration of the analytes. The addition of HCl may, however, limit the techniques or increase the difficulties of analysis.

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  $\leq$  0.3 grams for organic samples and  $\leq$  0.5 grams for inorganic samples.

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

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