

Aluminum Can Crushing

Instructions

Materials:

Hot plate or Bunsen burner

Aluminum can

Tray

Water

Tong

Set Up:

1. Fill the tray 1/2 way up with room temperature tap water.
2. Place the aluminum can on top of the hot plate.
3. Turn ON the hot plate.

Demo Procedure:

1. Add 2-3 mL of water to the can.
2. Let the water in the can heat up and wait until you clearly see steam coming out of the can.
3. Using a tong grab the can and invert the can over the water in the tray, make sure the top of the Al can is in even contact with the water.
4. Observe the instant and loud crushing of the Al can.

Troubleshooting:

- The can may not crush if the water inside the can has not heated up enough to convert to steam.
- The can may not crush if when you invert the can over the tray some of the room temperature water flows into the can. This may happen if the Al can is tilted at an angle when lowered into the water.