

Standard Operating Procedure

Title: SOP-011 Foam Wire Cutter

PI: Art Erdman **Lab Location:** Mayo G217

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Hazard Identification:

Physical Danger

Exposure Assessment:

Heat

- Heating Elements
The vertical wire on the foam wire cutter is a source of heat when the machine is on. The temperature of the wire can get extremely hot, and if it comes into contact with skin, this wire can cause severe burns. The wire can also cause serious damage to loose clothing, hair, or other equipment.

Control Plan:

- Read and become familiar with machine's operating procedures before operating
- Always know where the power off switch is located in case of emergency
- Always turn switch to *off* position when not in use
- Always disconnect the foam wire cutter from the power source before servicing, repairing, or making any adjustments
- Keep hands a safe distance away from the heated wire while in use
- Never touch the wire when the machine is on
- Wear safety glasses at all times while using foam wire cutter
- Work in a well-ventilated area when using this device
- Do not use the device near combustible materials
- Wear nonflammable protective garments that cover arms and legs to prevent burns
- Always know where the nearest fire extinguisher is and know how to use it
- Do not wear gloves, necktie, jewelry, or loose clothing, as they could come into contact with the heated wire
- Tie up long hair or wear protective hair covering to prevent hair from coming in contact with the heated wire

Experimental Procedures:

- Put on all safety equipment and tie back loose hair or clothing before operating

- Check to make sure all parts of machine are working and functioning properly
- Prepare work piece for cutting operation
- When ready, turn on foam wire cutter
- Cut work piece using wire cutter as desired
- Remove work piece when finished and immediately turn off machine
- Clean machine and workspace when finished. Dispose of any unwanted remains (see Waste Management Procedures)
- Return machine to its appropriate location

For other inquiries, see the User Manual in Appendix.

Waste Management Procedures:

When finished with the foam wire cutter, always clean the area. Paper towels and cleaning solution can be found in G217-11. Dispose of any leftover material or debris appropriately.

Place all other materials back in the appropriate place.

Spill and Accident Procedures:

If an accident occurs, report immediately to the lab supervisor (G217-05) or other appropriate staff member. If no one is around, dial 911 on the landline phone near the door of G217-11 to reach the campus police.

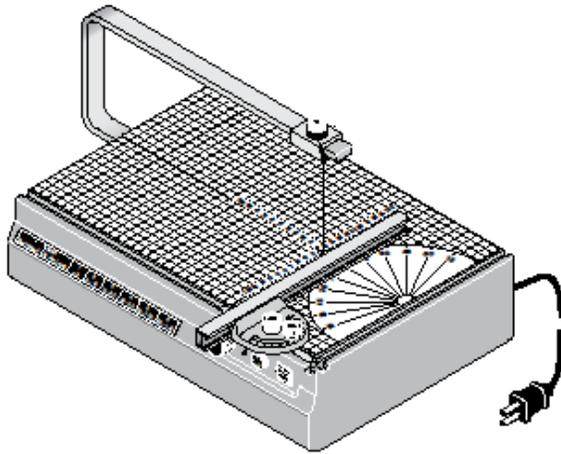
If there is a burn, immediately cool the affected area under cold water for 15 minutes. Do not apply any creams or ointments. Cover with a band-aid. Seek immediate medical attention. If needed, the lab first aid kit is located on the wall near the sink. A first aid pamphlet from DEHS is located in all of the MDC's first aid kits.

Appendix:

ProxonTools.com

PROXON

Thermocut



Manual