

TIG Information Sheet

Name: _____

Date: _____

Personal Protective Equipment Guidelines

- Eye protection (safety glasses) must be worn at all times in the laboratory. Eye protection must meet a minimum standard of ANSI Z87.1. Eye protection should provide both front and side protection.
- Face shields, welding helmets, and hand-held shields must be worn over primary eye protection (safety glasses).
- Hearing protection should be worn when the noise level exceeds 85 decibels (for example a portable circular saw operates at 105 decibels).
- A shop coat or coveralls are recommended to be worn at all times in the shop. No loose fitting clothing, frayed edges or rolled edges of garments, which could be caught in machinery or catch sparks should be worn. Take care to make sure that no flannel or oily garments are worn in the laboratory.
- Complete coverage of the foot and non-flammable footwear (no nylon) are required in the laboratory settings.
- Use a #10 or higher lens when welding with a TIG welder

Operation Safety Guidelines

- Check all welding cables to be sure they are in good repair and properly connected. Be sure the equipment is properly grounded.
- Make sure ceramic cup is in good condition before operation
- Check that the tungsten rod is in proper condition. Mild steel welding needs a point and aluminum welding needs a ball at end of the tungsten rod. Don't touch the tungsten rod with bare hand when the welder is on.
- Make sure gas is on during operations and TURN OFF after welding job is complete.
- Unprotected skin is quickly sunburn by the arc rays.
- Do not touch live electrode or electrical parts.
- Repair or replace worn, damaged, or cracked torch or cable insulation.
- Turn off welding power source before changing tungsten electrode or torch parts.
- Keep all covers and handle securely in place.
- Allow torch to cool before touching.
- Do not touch hot metal.
- Protect hot metal from contact by others.
- To reduce risk of electric shock, follow these procedures:
 - Keep cables close together by twisting or taping them, or using a cable cover.
 - Do not place your body between welding cables. Arrange cables to one side and away from the operator.
 - Do not coil or drape cables around your body.
 - Keep head and trunk as far away from the equipment in the welding circuit as possible.
 - Connect work clamp to workpiece as close to the weld as possible.
 - Do not work next to, sit or lean on the welding power source.
 - Do not weld whilst carrying the welding power source or wire feeder.