

SAFETY CHECK SHEET

Gas Tungsten Arc Welder

DO NOT use this machine without proper instruction.



Safety glasses must be worn at all times in addition to welding mask.



Sturdy footwear with rubber soles must be worn.



Respiratory protection devices may be required for some operations.



Rings and jewellery must not be worn.



Long and loose hair must be contained.



Close fitting/protective clothing to cover arms and legs must be worn.



Oil free leather gloves must be worn when welding.



A welding mask with correct grade lens for GTAW must be worn.



POTENTIAL HAZARDS

- Electric shock
- Fumes
- Radiation
- Electromagnetic field (EMF)
- Hot or molten materials
- Flying sparks
- Fire
- Compressed Gasses

PRE-OPERATIONAL SAFETY CHECKS

1. Ensure no slip/trip hazards are present in workspaces and walkways.
2. Ensure the work area is clean of flammable materials within 35 feet.
3. Keep the welding equipment, work area and gloves dry to avoid electric shocks.
4. Ensure gloves, welding torch and work leads are in good condition.
5. Ensure other people are protected from flashes by closing curtain to welding bay or erecting screens.
6. Ensure fume extraction unit is on before beginning welding operation. (if equipped)
7. Ensure work leads do not create a tripping hazard.
8. Faulty equipment must not be used. Immediately report suspect equipment

OPERATIONAL SAFETY CHECKS

1. Adjust regulator and gas cylinder valve.
2. Ensure machine is correctly set up for current, voltage, and gas flow.
3. Ensure good electrical ground connection.
4. Strike the arc before placing the tip of the filler wire in the weld zone.
5. Turn off the power while changing tungsten electrodes.
6. Never leave the welder running unattended.
7. Take care to avoid flashes.

HOUSEKEEPING

1. Switch off the welder and fume extraction.
2. Close gas cylinder valve.

This SCS does not necessarily cover all possible hazards associated with the machine and should be used in conjunction with other references. It is designed to be used as an adjunct to teaching Safety Procedures and to act as a reminder to users prior to machine use.

3. Hang up welding gun and leads.
4. Leave the work area in a safe, clean and tidy state.