

Safety Checklist for Welding & Related Thermal Processes

Face & Eye Protection:



Flipvision Welding Face Shield 709485



Face Shield with Handle 619098



Weld Goggles with Lift-Front 175273



Safety Grinding Goggles 653410

Protective Clothing:



Leather jacket, Large for welding 510438
Leather jacket, Extra large for welding 510446



Leather apron for welding 510420



Leather trousers with belt 633016



Arm protector 184184



Leather spats 510453



Hand Protection:



Welders Gloves (6 pairs) 632786



TIG and gas welding gloves (6 pairs) 632794



Working gloves (12 pairs) 633057



Heat resistant mitten 233148

Accessories:



Welding Curtain with Hooks 633065

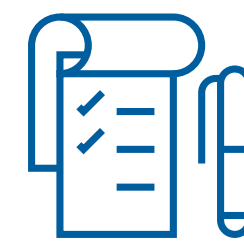


Welding Spatter Blanket 1 x 10m 646067



FumeClean-230 Weld. Fume Extractor 735878

Do not operate equipment for welding or related thermal processes unless you are thoroughly familiar with the process, the equipment, rules and regulations related to the process and equipment; including proper use of accessories, e.g. fire extinguishers. Preparation for hot-work onboard should include, without being limited to, the points below to ensure safe operation.



Ensure good housekeeping practices

- Tidy up the workplace and remove any flammable materials, liquids and gases from its surroundings
- Shield the workplace to protect others from sparks and radiation from the arc
- Post a warning sign when welding is in progress



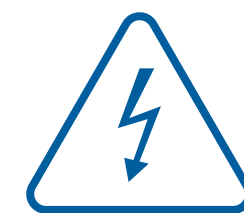
Maintain safe welding procedures

- Ensure that all relevant checklists, certificates and permits for hot work have been issued before welding
- Work location:
 - Outside of workshop: welder accompanied by assistant
 - Within a confined space: assistant located outside, within welder's view and can rapidly cut off gas and power supply
- Ensure proper ventilation and availability of firefighting equipment within the workplace
- Use special fume extraction equipment if required
- Never use acetylene or oxygen to blow away dust from yourself or the workplace
- Always switch off the welding machine and close off the gas supply when not in use, even during short breaks. Remove the stick electrode from electrode holder
- Do not leave the work place unattended
- Conduct regular interval inspections to ensure no risk of fire remains after welding



Safe handling of all gas cylinders onboard during use and transportation

- Store gas cylinders in suitable storage rooms above deck and secure them properly in upright position
- Ensure that acetylene and oxygen regulators are fitted with flashback arrestors
- Check that hoses and all gas connections are in good condition, without leaks and damages
- Ensure the correct colour coding for the gas in hoses (red for acetylene, blue for oxygen, black for shielding gases and filtered air)
- Ensure that gas cylinders are fitted with valve caps and use appropriate cylinder trolleys for the transport of cylinders
- Use of gas distribution systems is recommended to increase safety and reduce the need for transporting cylinders around the ship
- Never use:
 - oil or grease in connection with welding gases
 - alloys containing more than 65% copper or 45% silver in connection with acetylene



Prevent electrical hazards

- Never touch electrically live parts (e.g. welding electrode holder) without being properly insulated
- Do not perform welding in 'wet' conditions and always insulate yourself from the work and ground
- Check that power sources function correctly according to relevant regulations and be familiar with the operating instructions
- Ensure that torches and electrode holders are in good working order and are fully insulated
- Ensure the work lead connection is clamped close to where you are welding



Use the appropriate Personal Protective Equipment (PPE)

- Proper long-sleeved boiler suit with safety shoes must be worn
- Do not wear clothes of highly combustible materials or clothes that are wet
- Do not carry combustible material (e.g. matches, lighters, oil rags)
- Use head, eye and face protection (helmet, shield, goggles) according to job and ensure that filter glasses are of the correct shade
- Use a dust filter or breathing apparatus to avoid inhaling fumes and dust from the welding process

For more information, see the suggested Unitor™ PPE for welding.