

Hejny Rentals, Inc.

Contractor, Lawn & Garden, and Party Equipment Rentals
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ARC WELDER 170 AMP GAS

Safety Precautions -

Burn Protection-

A welding arc is intensely bright, causing eye damage to unprotected eyes and can penetrate light clothing resulting in sever "sunburn" like skin burns. To prevent these injuries always wear...

- Eye and Head Protection - Never look at a welding arc without wearing eye protection. Insist that any bystander turn away from the arc, wear filtered eye coverage, or leave the area.
- Always use a welding helmet or shield containing a filter plate shaded No. 9 or darker. Cover the filter eye coverage with a rotective clear plate. Looking at an arc, even for a moment, without adequate protection can result in retinal burn that may result in permanent eye damage.
- Wear protective clothing including long sleeve, gloves, hats, and sturdy shoes.

Toxic Fume Protection-

Without adequate ventilation, severe discomfort, illness, or death can result from fumes, vapors, heat, or changes in oxygen level that the welding process may produce.

Fire and Explosion Prevention-

Flying sparks and falling slag can fly 35 feet, passing through cracks, along pipe, through wall, floor, window, or door openings, causing fire or explosions. Move work to an area free of combustibles.

Shock Prevention-

Do not stand, sit, lie, lean on, or touch a wet surface when welding without suitable protection. Stay on dry duckboard or a rubber mat when dampness or sweat can not be avoided. When Grounding Equipment, do not ground to electrical conduit or to a pipe carrying gas or flammable liquid. Before welding, check ground for continuity. Be sure conductors are touching bare metal.

Types of Welding Rods

- A.W.S. 6011 - General Purpose Rod - Has deep penetration and is food for all positions including vertical and overhead. The light slag makes it harder to clean up. Splatter is heave. Used to weld dirty and rusty metals.
- A.W.S. 6013 - General Purpose Rod - Similar to 6011 with a medium penetration.
- A.W.S. 7014 - General Purpose Rod - This rod strikes easily, has heavy slag and iron powder in flux. This heavy slag causes the inexperienced welder to confuse the slag with the weld. Low to medium penetration. The metal to be welded should be clean.
- A.W.S. 7018 - Low Hydrogen - High Strength weld and heavy slag. Slag chips away easily to produce a smooth bead. Has medium penetration. For use with high strength carbon steel.

Rod Sizes and Amperage Settings -

Type	3/32"	1/8"	5/32"
MILD STEEL			
6010	40-80 A	70-130 A	110-165 A
6011	50-70 A	85-125 A	130-160 A
6012	50-90 A	75-130 A	120-200 A
6013	40-85 A	70-120 A	130-160 A
7014	80-90 A	120-145 A	140-210 A
LOW HYDROGEN/MILD STEEL			
7016		80-130 A	120-170 A
7018	80-110 A	90-150 A	110-230 A

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