



Changzhou Giant Welding Co.,Ltd
www.giantweld.com

| Standard: AWS A 5.9 YB/T5092 | Chemical Composition % | | | | | | |
|------------------------------------|---|-----------|-----------|----------|---------------------------------|-----------|----------------|
| | C | Mn | Si | Cr | Ni | P | S |
| Grade ER304 | ≤0.08 | 1.0 – 2.5 | ≤ 0.60 | 17 – 19 | 8 – 11 | ≤ 0.03 | ≤ 0.03 |
| Type | Spool (MIG) | | | | Tube (TIG) | | |
| Specification (MM) | 0.8、 0.9、 1.0、 1.2、 1.6、 2.0 | | | | 1.6、 2.0、 2.4、 3.2、 4.0、 5.0 | | |
| Package | S100/1kg S200/5kg S270,S300/15kg-20kg | | | | 5kg/box | 10kg/box | length :1000MM |
| Mechanical Properties | Tensile Strength Mpa | | | | Elongation after fracture A (%) | | |
| | ≥ 520 | | | | ≥ 30 | | |
| Diameter (MM) | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | 2.5 | 3.2 |
| Current (A) | 70 ~ 150 | 100 ~ 200 | 140 ~ 220 | 50 ~ 100 | 100 ~ 200 | 200 ~ 300 | 300 ~ 400 |
| Application | ER304, also known as H0Cr18Ni9, is used in the welding of similar base materials, equipment and machine parts that require good comprehensive performance, furniture decoration and food medical industry. | | | | | | |
| Notice | <p>1. Oil, dirt and rust on the welding wire surface should be removed before welding. Surface impurities such as oil, rust and water should be thoroughly removed in the welding place, so as to prevent blowhole, crack and so on during welding. The surface of the groove and its surroundings should be polished with metallic gloss.</p> <p>2. In order to obtain good mechanical properties of welding seam, suggest protect gas Ar+2%O2 and shield gas flow rate 20-25 L/min for MIG welding. For TIG welding,suggest protect gas pure Ar and shield gas flow rate 8-15 L/min ,Arc length 1~3 mm; wind speed limit ≤ 1.0 m/s, argon protection at the back of welding area .</p> <p>3. In the welding process, the welding line energy directly affects the mechanical properties and crack resistance of weld metal, and should be paid more attention to.</p> <p>4. The above welding methods, conditions and specifications are for reference only. Users should evaluate the welding process according to their own welding characteristics before using the welding wire for the formal product welding.</p> | | | | | | |

