

Standard: AWS A 5.9 YB/T5092	Chemical Composition %								
	C	Mn	Si	Cr	Ni	P	S	Mo	Cu
Grade ER308	≤0.08	1.0 – 2.5	0.3 – 0.65	19.5 – 22	9 – 11	≤0.03	≤0.03	≤0.75	≤0.75
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 (%)				
	≥ 550				≥ 35				
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	<p>ER308 welding wire is also called H08Cr21Ni10Si, the main component is 18Cr-8Ni. the weld metal has good mechanical properties and intergranular corrosion resistance, and the weld seam has good crack resistance.</p> <p>For welding 18-8、18-12 and 20-10 austenitic stainless steels, it is often used in the welding of similar parent metals, especially Type 304, such as 0Cr19Ni9. 00Cr19Ni10 steel.</p>								
Notice	<ol style="list-style-type: none"> 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. 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; Length of the tungsten pole is about 3~5 mm; wind speed limit ≤ 1.0 m/s, argon protection at the back of welding area . 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. 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. 								