

Inweld 310

Alloy ER310

AWS A5.9

UNS Number: S31080



Description and Applications:

ER310; the nominal composition (wt. %) of this classification is 26.5 Cr, 21 Ni. Filler metal of this classification is most often used to weld base metals of similar composition.

ER310 stainless steel wire is used for welding base metal in cast or wrought iron form of similar type stainless steel. Deposit calls for low heat during welding and is fully austenitic.

Chemical Composition of ER310

C	Cr	Ni	Mo	Mn	Si	P	S	Cu
0.08-0.15	25.0-28.0	20.0-22.5	0.75	1.0-2.5	0.30-0.65	0.03	0.03	0.75

Single values are maximum unless otherwise specified.

(As Welded)

Shielding Gas: Ar or Ar CO₂ mix

Tensile Strength (min) 95,000 psi

Elongation % (min) 34%

Position AP



Operating Range in Amps GMAW

0.023	35-70
0.030	50-100
0.035	100-150
0.045	150-200