

Tigrod ER80S-B2

Tigrod ER80S-B2 is a chrome-moly TIG rod used for joining creep resistant steels of the 0.5% Cr - 0.5% Mo, 1% Cr - 0.5% Mo, and 1.25% Cr - 0.5% Mo grades. These non-copper-coated rods are primarily used to fabricate and repair power piping and boilers in the power generation industry.

Specifications

Classifications	AWS A5.28 : ER80S-B2
Industry	Process Petrochemical

Tensile Properties

Testing Condition	Yield Strength	Tensile Strength	Elongation
Stress Relieved 1 hour(s) 620 °C (1150 °F)	559 MPa (81 ksi)	655 MPa (95 ksi)	29 %
Stress Relieved 1 hour(s) 732 °C (1350 °F)	566 MPa (82 ksi)	655 MPa (95 ksi)	24 %
Stress Relieved 1 hour(s) 746 °C (1375 °F)	552 MPa (80 ksi)	642 MPa (93 ksi)	26 %

Typical Wire Composition %

C	Mn	Si	S	P	Ni	Cr	Mo	V	Cu
0.07-0.012	0.40-0.70	0.40-0.70	max 0.025	max 0.012	max 0.20	1.20-1.50	0.40-0.65	max 0.03	max 0.20

Typical Wire Composition %

X-bar
max 12 ppm