



Blue Demon™ ER70S2 is a premium TiG wire used for welding on all grades of mild and carbon steels, producing quality welds with minimal porosity. It is a triple deoxidized wire (Zirconium, Titanium, and Aluminium) making it an excellent choice for welding over rust and mill scale. 70S2 can be used for a slightly under matched filler metal on chrome moly, it gives better overall properties and works a lot better if no heat treatment is required

Class: ER70S-2

AWS: A5.18

AWS Chemical Composition Requirements

C = 0.07 max	Ni = 0.15 max	Cu = 0.50 max
Mn = 0.90 – 1.40	Cr = 0.15 max	Ti = 0.05 – 0.15
Si = 0.40 – 0.70	Mo = 0.15 max	Zr = 0.02 – 0.12
P = 0.025 max	V = 0.03 max	Al = 0.05 – 0.15
S = 0.035 max		

Available Sizes

1.6mm

2.4mm

Application

Type ER70S-2 is a triple deoxidized steel welding wire for tig and mig welding applications.

Shielding Gas Tig –Argon

Shielding Gas Mig –Argon/Co2

Deposited Chemical Composition % (Typical)

C = 0.05	P = 0.012	Al = 0.09
Mn = 1.15	Ti = 0.06	Cu = 0.35
Si = 0.45	S = 0.012	Zr = 0.04

Deposited All Weld Metal Properties % (As Welded)

Tensile Strength	74,800 psi
Yield Strength	62,000 psi
Elongation	24%

Deposited Charpy-V-Notch Impact Properties %

45 ft. lbs. (at -20°F)