



WSG ER80S-B2

Manufactured by **FLIESS-GERMANY**

F GTAW wires for high temperature creep resistant 1.25Cr, 0.5 Mo ferritic steel i.e P11, P12
AWS A5.28/ASME SFA- A5.28 ER80S-B2

Key Characteristics

- Wire used for creep resistant applications up to 550C
- Wire has low level of trap elements e.g. Sn, As, Sb and P
- Providing low Bruscato factor (X less than 10 PPM) for temper embrittlement resistant applications

Base Material

For Matching 1.25 Cr, 0.5 Mo Creep resistant Ferritic steels

ASTM A182 Grades F11/F12 A199/A200 grades T11, A217grades WC6/WC11, A234 grades WP11/WP12, A335 P11/P12 ,A387 Grades 11/12

Typical Applications

- Power Generation plant include steam piping, Turbines and boilers
- Alloy also finds applications in chemical and petrochemical Industries.

Typical Analysis %

Typical Wire Composition	%C	%Mn	%Si	%S	%P
	0.09	0.55	0.55	0.025 Max	0.007.
Typical Wire Composition	%Cr	%Ni	%Mo	%Cu	%other
	1.35	0.2 Max	0.5	0.35 Max	0.5 Max

Mechanical Properties

	Y.S. MPa (ksi)	T.S MPa (ksi)	Elongation %	Impact Energy J
Typical Results (all weld metal) As welded	470 mpa	550 mpa	4d/5d 19	+32F 60 Ft-lb

Ordering Information

Product Number	Product (AWS Specification)	Dimension mm/inches	Single Tube Weight kg/lb	Box Weight kg/lb
53916060510	WSG ER80S-B2 (ER80S-B2)	1.6 x 1000 mm (1/16")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
53924060510	WSG ER80S-B2 (ER80S-B2)	2.4 x 1000 mm (3/32")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
53932060510	WSG ER80S-B2 (ER80S-B2)	3.2 x 1000 mm (1/8")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)

