



WSG ER90S-B3

Manufactured by **FLIESS-GERMANY**

GTAW wires for high temperature creep resistant 2.25Cr, 1.0 Mo ferritic steel i.e P11 ,P12
AWS A5.28/ASME SFA- A5.28 ER90S-B3

Key Characteristics

- Wire used for creep resistant applications up to 600C
- 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

Typical Applications

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

Base Material

For Matching 2.25 Cr, 1.0 Mo Creep resistant Ferritic steels

ASTM A182 Grades F22 A199/A200 grades T21/T22, A217grades WC9, A234 grades WP22, A335 P22 ,A387 Grades 21/22

Typical Analysis %

Typical Wire Composition	%C 0.09	%Mn 0.55	%Si 0.55	%S 0.025 Max	%P 0.007
Typical Wire Composition	%Cr 2.5	%Ni 0.2 Max	%Mo 1.05	%Cu 0.35 Max	%other 0.5 Max

Mechanical Properties

	Y.S. MPa (ksi)	T.S MPa (ksi)	Elongation %	Impact Energy J
Typical Results (all weld metal) As welded	540 mpa	620 mpa	4d/5d 17	-40C 47J

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Ordering Information

Product Number	Product (AWS Specification)	Dimension mm/inches	Single Tube Weight kg/lb	Box Weight kg/lb
54016060510	WSG ER90S-B3 (ER90S-3)	1.6 x 1000 mm (1/16")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
54024060510	WSG ER90S-B3 (ER90S-3)	2.4 x 1000 mm (3/32")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
54032060510	WSG ER90S-B3 (ER90S-3)	3.2 x 1000 mm (1/8")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)

