WSG ER90S-B9

Manufactured by **FLIESS-GERMANY**

GTAW wires for high temperature creep resistant 9Cr, 1.0 Mo ferritic steel i.e T91/ P91 ,P12
AWS A5.28/ASME SFA- A5.28 ER90S-B9

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 9 Cr, 1.0 Mo Creep resistant Ferritic steels

ASTM A182/ A336 Grades F91 A213 grades T91, A 217grades C12A, A234 grades WP91, A335 P91 ,A387 Grades 91

Typical Analysis %

Typical Wire Composition	**%C** 0.10	**%Mn** 0.5	**%Si** 0.32	**%S** 0.025 Max	**%P** 0.007
Typical Wire Composition	**%Cr** 8.7	**%Ni** 0.2 Max	**%Mo** 1.0	**%Nb** 0.04 Max	**%V** 0.2 Max

Mechanical Properties

	Y.S. MPa (ksi)	**T.S MPa (ksi)**	**Elongation %**	**Impact Energy J**
Typical Results (all weld metal) As welded	520 mpa	620 mpa	4d/5d 16	Not applicable

Magma North America
8604 53rd Avenue, Edmonton, T6E 5G2
Tel: 780 761 2525 | Fax: 780 761 2520
Email: sales@magmanorthamerica.com | Web: www.magmanorthamerica.com

Ordering Information

Product Number	Product (AWS Specification)	Dimension mm/inches	Single Tube Weight kg/lb	Box Weight kg/lb
55816060510	WSG ER90S-B9 (ER90S-B9)	1.6 x 1000 mm (1/16")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
55816060510	WSG ER90S-B9 (ER90S-B9)	2.4 x 1000 mm (3/32")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
55816060510	WSG ER90S-B9 (ER90S-B9)	3.2 x 1000 mm (1/8")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)

Magma North America
8604 53rd Avenue, Edmonton, T6E 5G2
Tel: 780 761 2525 | Fax: 780 761 2520
Email: sales@magmanorthamerica.com | Web: www.magmanorthamerica.com