



WSG A 31

Manufactured by **FLIESS-GERMANY**

GTAW wires for High Strength Steel – **AWS A5.28/ASME SFA- A5.28 ER80S-D2/ER90S-D2**

Key Characteristics

- Wire for welding high strength low alloy steel
- Used Predominantly after stress relieving
- Provides good combination of strength and toughness

Typical Applications

- Welding of High strength steels.
- Crane Manufacturing, mining, pressure vessels

Base Material

Wide range of engineering steels with yield strength up to 540 Mpa (78ksi) and UTS up to 620 Mpa(90ksi)

ASTM a 487 Steel grades 2A/B/C

AISI 4130

Typical Analysis %

Typical Wire Composition	%C 0.07	%Mn 1.7	%Si 0.5	%S 0.010	%P 0.007
Typical Wire Composition	%Cr 0.20	%Ni 1.6	%Mo 0.45	%Cu 0.014	%Ti 0.05

Mechanical Properties

	Y.S. MPa (ksi)	T.S MPa (ksi)	Elongation %	Impact Energy J
Typical Results (all weld metal) As welded	690 mpa	770 mpa	4d/5d 17	-60C 47 J

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
51916060510	WSG A-31 (ER80S-D2)	1.6 x 1000 mm (1/16")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
51924060510	WSG A-31 (ER80S-D2)	2.4 x 1000 mm (3/32")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
51932060510	WSG A-31 (ER80S-D2)	3.2 x 1000 mm (1/8")	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)

