



GMAW/GTAW LOW ALLOY STEEL (High Strength) AUTOMIG 80S-G / TIGFIL 80S-G



MEDIUM STRENGTH COPPER COATED LOW ALLOY STEEL WIRE

CLASSIFICATION: AWS A/SFA 5.28	APPROVALS :	
Automig 80S-G: ER80S-G Tigfil 80S-G: ER80S-G	-	
KEY FEATURES :		
<ul> <li>Copper coated low alloy steel solid fi</li> <li>Characterized by smooth and shiny v</li> <li>Uniform copper coating</li> <li>Provide good wetting, rust and scale</li> </ul>	er wire & rod elds olerance • Weld deposit is r • Recommended w • Radiographic qu base metals	esistant to cold cracking ith 100% CO₂ shielding gas ality even over poor cleaned
	GMAW: DCE GTAW: DCEN	P I

		V: DCEN
Shielding Gas	Gas Flow Rate, LPM	Stickout, mm
GMAW: CO <sub>2</sub>	12-18	10-20
GTAW: Ar	10-15	-

## **TYPICAL APPLICATIONS :**

- Welding of Mn-0.5 Mo steel
- Pipelines and pressure vessels with operating temperatures of about 500°C
- Suitable for a wide range of base metals such as problem steels containing high sulfur to the basic carbon and low alloy Cr-Mo base metals
- Repair of medium strength steel castings

## **STORAGE / HANDLING :**

Keep dry and follow handling instructions mentioned on the box

CHEMICAL COMPOSITION OF BARE SOLID WIRE, Wt% :						
	С	Mn	Si	Мо	S	Р
Typical	0.09	1.6	0.6	0.4	0.01	0.01

## **MECHANICAL PROPERTIES OF ALL WELD METAL :**

	Condition	UTS, MPa	YS at 0.2% offset, MPa	EL%	CVN Impact at -30°C, J
Typical	As Welded	600	540	24	40

Mechanical properties will vary with the type of shielding gas used.

## **PACKING DATA :**

	Ø, I	mm	Kg/Spool			
Automig 80S-G	1.2		15			
	1.6		15			
	Ø x L, mm	Primary Box, Kg	No. of Primary Boxes	Net Wt. of Carton, Kg		
Tigfil 80S-G	1.6 x 1000	5	4	20		
	2.0 x 1000	5	4	20		
	2.5 x 1000	5	4	20		

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