



GMAW/GTAW LOW ALLOY STEEL (High Strength)

AUTOMIG 80S-D2 / TIGFIL 80S-D2





CLASSIFICATION: EN ISO 14341-A EN 1668 AWS A/SFA 5.28 APPROVALS:

Automig 80S-D2: G 46 3 C G4Mo - ER80S-D2 -

Tigfil 80S-D2: - W 46 3 W4Mo ER80S-D2 IBR

KEY FEATURES:

- · Copper coated solid filler wire and rod
- Mn-0.5 Mo type welds deposit
- Uniform copper coating
- Mo Provide increased strength

- High levels of Mn and Si provide good wetting, rust and scale tolerance
- Excellent sub-zero toughness
- Porosity free radiographic quality weld

WELDING POSITION:		W: DCEP /: DCEN
Shielding Gas	Gas Flow Rate, LPM	Stickout, mm
GMAW: CO ₂	12-18	10-20
GTAW: Ar	10-15	-

TYPICAL APPLICATIONS:

- Welding of Mn-0.5 Mo steel
- Application in oil process pipe work and fittings where resistance to sulphide-induced stress corrosion cracking is important
- Suitable for single and multiple pass welding
- Variety of ordinary and difficult to weld carbon and low alloy, higher strength steels in both as welded and PWHT condition

STORAGE / HANDLING:

Keep dry and follow handling instructions mentioned on the box

CHEMICAL COMPOSITION OF BARE SOLID WIRE, Wt%:							
	С	Mn	Si	Мо	Cu*	S	P
Specification	0.07-0.12	1.60-2.10	0.50-0.80	0.40-0.60	0.50 max	0.025 max	0.025 max

^{*} Including Cu in the coating

MECHANICAL PROPERTIES OF ALL WELD METAL :					
	Condition	UTS, MPa	YS at 0.2% offset, MPa	EL%	CVN Impact at -30°C, J
Specification	As Welded	550 min	480 min	18 min	30 min

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

PACKING DATA:					
	Ø,	mm	Kg/Spool		
Automig 80S-D2	1.2		15		
	1.6		15		
Tigfil 80S-D2	Ø x L, mm	Primary Box, Kg	No. of Primary Boxes	Net Wt. of Carton, Kg	
	1.6 x 1000	5	4	20	
	2.0 x 1000	5	4	20	
	2.5 x 1000	5	4	20	