



GMAW/GTAW LOW ALLOY STEEL (High Strength) AUTOMIG 90S-D2 (AUTOMIG IV)

TIGFIL 90S-D2



COPPER COATED LOW ALLOY WIRE FOR Mn-Mo STEEL WELDING

CLASSIFICATION :	AWS A/SFA 5.28	APPROVALS :
Automig 90S-D2 (Automig IV): Tigfil 90S-D2:	ER90S-D2 ER90S-D2	IBR/RDSO -
KEY FEATURES :		
Copper coated solid filler wire and rod		• High level of deoxidizers for defect free welds

- Copper coated solid filler wire and rod
- Mn-0.5 Mo type welds deposit
- Uniform copper coating
- Mo addition for high strength

W/FI	DING	DOCIT	

WELDING POSITION :	GTAW: DCEN Gas Flow Rate, LPM Stickout, mm 15-22 10-20		
Shielding Gas	Gas Flow Rate, LPM	Stickout, mm	
GMAW: Ar + 1-50 ₂	15-22	10-20	
GTAW: Ar	10-15	_	

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TYPICAL APPLICATIONS :

Welding of high tensile steels like IS 8500 Gr.540B, 570B & 590B, IS 2002 Gr.3, IS 1875 Class 3A

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Suitable for singal and multiple pass welding •

Excellent low temperature toughness

Porosity free radiographic quality weld

GMAW DCFP

- High temperature service pipe, fittings, flanges and valves
- Welding of Sailma 450/450Hi steel used in **CONCOR** wagons

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	Р
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	620 min	540 min	17 min	30 min

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

PACKING DATA :					
	Ø,	mm	Kg/Spool		
Automig 90S-D2	1	.2	15		
	1	.6	15		
Tigfil 90S-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	

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