



## GMAW/GTAW LOW ALLOY STEEL (High Strength) AUTOMIG 100S-G / TIGFIL 100S-G



COPPER COATED MEDIUM ALLOYED WIRE FOR HIGH STRENGTH LOW ALLOY

# CLASSIFICATION : AWS A/SFA 5.28 APPROVALS :

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ER100S-G

#### **KEY FEATURES :**

- Copper coated alloy steel wire
- Ni-Cr-Mo alloyed
- Smooth feedability, low spatter

- Exhibit high strength as well as low temperature toughness
- Radiographic quality

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

#### **TYPICAL APPLICATIONS :**

- Welding of HY 80 and other similar grade materials
- Welding of high strength and low alloy steels
- Joining large vehicles and crane manufacturing
- Suitable for single and multi-pass welding of low alloy steels

### **STORAGE / HANDLING :**

Keep dry during storage and handling

CHEMICAL COMPOSITION OF BARE SOLID WIRE, Wt% :									
	С	Mn	Si	Cr	Ni	Мо	V	S	Р
Typical	0.08	1.5	0.5	0.3	1.4	0.3	0.08	0.015	0.015

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

	Condition	UTS, MPa	YS, MPa	EL%	CVN Impact at -40°C, J
Typical	As Welded	800	710	24	60

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

#### PACKING DATA :

	Ø, i	mm	Kg/Spool		
Automig 100S-G	1	.2	15		
	1.	.6	15		
Tigfil 100S-G	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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