



Test certificate

Special wire products (p) Ltd.,

235, Sidco Industrial Estate,

Ambattur, Chennai-600098

Brand : STAR
Product : MIG WELDING WIRE
Classification : ER70S-6
Specification : AWS A5.18-2017;ASME SFA A5.18
Batch No : D2002424
Size Ø : 1.20 mm

Test certificate no : 1989
MFD : 05.05.2025
Email : sales@specialwires.in
Web site : www.specialwire.in

This is to certify that all tests required by the specifications shown for classification were performed, and the material tested met all requirements. It is manufactured and supplied as per the Quality system program of SWP, which meets the requirements of ANSI/AWS A5.18-2017 and other specification, as applicable.

OPERATING PARAMETERS	SIZE OF WIRE(MM)	POLARITY CURRENT TYPE	SHIELDING GAS	NOMINAL VOLTAGE (V)	NOMINAL CURRENT, (A)	STICK OUT DISTANCE, (MM)	GAS FLOW L/M
SPECIFICATION	Ø 1.2 - 0.05	DC+	80%Ar + 20%CO ₂ (or) 100% Co ₂	20-32	200-350	10 - 20	15-20
ACTUAL	Ø 1.17	DC+	100% Co ₂	25	256	17	18

RESULT : The Operating Parameters met the requirements of AWS A5.18-2017;ASME SFA A5.18

CHEMICAL COMPOSITIONS OF WIRE

CHEMICAL COMPOSITIONS	C	Mn	Si	P	S	Cr	Ni	Cu
SPECIFICATION	0.06-0.15	1.40-1.85	0.80-1.15	0.025 MAX	0.035MAX	0.150 Max	0.150 Max	0.50MAX
ACTUAL	0.075	1.44	0.861	0.014	0.007	0.024	0.01	0.007

RESULT : The Chemical Composition of the wires met the requirements of AWS A5.18-2017;ASME SFA A5.18

MECHANICAL PROPERTIES OF WELDED

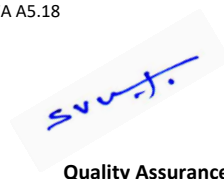
MECHANICAL PROPERTIES	Tensile strength [N/mm ²]	Yield Strength [N/mm ²]	Elongation %	Average impact energy J@-30°C					
SPECIFICATION	480 min	400 min	22 min	27					
ACTUAL	580	508	37	1	2	3	4	5	AVG
				159	140	152	139	133	144.6

RESULT : The Mechanical Properties of the welded met the requirements of AWS A5.18-2017;ASME SFA A5.18

Note : Radiographic report NSD Acceptable

Rev No: 02

Rev Date : 09.11.2023


Quality Assurance