



# Test certificate

Special wire products (p) Ltd.,  
235, Sidco Industrial Estate,  
Ambattur, Chennai-600098

Brand	: STAR	Test certificate no	: 1943
Product	: MIG WELDING WIRE	MFD	: 04.02.2025
Classification	: ER70S-6	Email	: <a href="mailto:sales@specialwires.in">sales@specialwires.in</a>
Specification	: AWS A5.18-2017;ASME SFA A5.18	Web site	: <a href="http://www.specialwire.in">www.specialwire.in</a>
Batch No	: D985323		
Size Ø	: 1.20 mm		

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%CO2 (or) 100% Co2	20-32	200-350	10 - 20	15-20
ACTUAL	Ø 1.175	DC+	100% Co2	26	242	15	16

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	0.07-0.09	1.40-1.85	0.80-0.90	0.025 MAX	0.025 MAX	0060 Max	0.150 Max	0.10 MAX
ACTUAL	0.081	1.46	0.854	0.015	0.006	0.02	0.012	0.008

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/mm2]	Yield Strength [N/mm2]	Elongation %	Average impact energy J@-30°C					
				1	2	3	4	5	AVG
SPECIFICATION	480 min	400 min	22 min	27					
ACTUAL	598	490	35	135	147	138	135	133	137.6

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

Note : Radiographic report NSD Acceptable

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*SVV*  
Quality Assurance