

Test certificate



Brand	: STAR	Test certificate no	: 1579
Product	: MIG WELDING WIRE	MFD	: 26.04.2024
Classification	: ER70S-6	Email	: sales@specialwires.in
Specification	: AWS A5.18-2017;ASME SFA A5.18	Web site	: www.specialwire.in
Batch No	: E965687		
Size Ø	: 1.00 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 1.0 - 0.05	DC+	100% Co2	18-30	150-300	10 - 20	15-20
ACTUAL	Ø 0.962	DC+	100% Co2	25	240	18	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	0.068	1.47	0.845	0.012	0.005	0.018	0.009	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/mm2]	Yield Strength [N/mm2]	Elongation %	Average impact energy J@-30°C					
SPECIFICATION	480 min	400 min	22 min	27					
ACTUAL	525	562	25	1	2	3	4	5	AVG
				145	121	129	145	135	135

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

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Quality Assurance