



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 : E961560
Size \varnothing : 0.80 mm

Test certificate no : 1577
MFD : 08.03.2024
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	\varnothing 0.8 - 0.05	DC+	80%Ar + 20%CO2 (or) 100% Co2	18 - 26	100 - 200	10 - 20	15-20
ACTUAL	\varnothing 0.766	DC+	80%Ar + 20%CO2 (or) 100% Co2	19	133	16	19

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	0.079	1.47	0.840	0.015	0.006	0.017	0.009	0.006

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	568	519	24	1	2	3	4	5	AVG
				126	121	129	138	135	130

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