



Test certificate

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

Product : MIG WELDING WIRE
Grade : ER70S-6
Character : AWS - 5.18 ER 70S 6, IS - 6419 S-4
Batch : E938429
Size : **Ø1.00 MM**

Certificate No : 1432
Email : sales@specialwires.in
Web site : www.specialwire.in
MFD : 02-08-2023

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 SPL, which meets the requirements of ISO 9001, ANSI/AWS A5.01 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	Ø1.00MM-0.05	DC+	80%Ar +20%CO2	18-30	150-300	10-20	15-20
ACTUAL	0.77	DC+	80%Ar + 20%CO2	27	184	13	16
RESULT	OK	OK	OK	OK	OK	OK	OK

CHEMICAL COMPOSITIONS OF WIRES

CHEMICAL COMPOSITIONS	C (%)	Mn (%)	Si (%)	P (%)	S (%)	Cr (%)	Ni (%)	Copper Coating % (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	1.45	0.858	0.015	0.010	0.022	0.010	0.008
RESULT	OK	OK	OK	OK	OK	OK	OK	OK

MECHANICAL PROPERTIES OF WIRE

MECHANICAL PROPERTIES	Tensile strength [N/mm2]	Yield Strength [N/mm2]	Elongation %	Average impact energy J@-30°C
SPECIFICATION	550 MAX	400 MAX	20 MIN	22J
ACTUAL	488	355	44	22J
RESULT	OK	OK	OK	OK

Note :

Radiographic inspection : Met requirements

Ref No:048/0005

DATE:02.12.19



Quality Assurance