



# 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 : M413566600  
Size :  $\varnothing$ 0.80 MM

Certificate No : 1529  
Email : [sales@specialwires.in](mailto:sales@specialwires.in)  
Web site : [www.specialwire.in](http://www.specialwire.in)  
MFD : 13-10-2023

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	$\varnothing$ 0.80MM-0.05	DC+	80%Ar +20%CO2	18-26	100-200	10-20	15-20
ACTUAL	0.79	DC+	80%Ar + 20%CO2	21	132	15	19
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	0.060-0.080	1.42-1.50	0.80-0.90	0.020 MAX	0.020 MAX	0.050 MAX	0.150 MAX	0.10 MAX
ACTUAL	0.078	1.47	0.840	0.016	0.009	0.022	0.024	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	525 MAX	400 MAX	20 MIN	22
ACTUAL	509	384	41	22
RESULT	OK	OK	OK	OK



*S. V. J.*  
Quality Assurance