



# 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 No : G8778151011A2212  
Size :  $\varnothing$  1.20 mm

Test certificate no : 514  
Email : [sales@specialwires.in](mailto:sales@specialwires.in)  
Web site : [www.specialwire.in](http://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 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	$\varnothing$ 1.20- 0.05	DC+	80%Ar +20%CO2	22-36	130-300	10-20	15-20
ACTUAL	$\varnothing$ 1.16	DC+	80%Ar + 20%CO2	24	191	14	17
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	0.068	1.46	0.892	0.014	0.005	0.025	0.007	0.33
RESULT	OK	OK	OK	OK	OK	OK	OK	OK

## MECHANICAL PROPERTIES OF WIRE

MECHANICAL PROPERTIES	Tensile strength [N/mm <sup>2</sup> ]	Yield Strength [N/mm <sup>2</sup> ]	Elongation %	Average impact energy J@-30°C
SPECIFICATION	490 min	400 min	22 min	27 J
ACTUAL	633	463	28	28
RESULT	OK	OK	OK	OK

Note :

Radiographic inspection : Met requirements

Ref No:048/0005

DATE:02.12.19



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Quality Assurance