

SuperArc® LA-100

Key Features

- Capable of welding steels with yield strength up to 690 MPa
- Excellent for welding quenched and tempered (Q&T) steels
- Good impact values @ -40°C

Conformances

AWS A5.28/A5.28M: ER100S-G, ER110S-G

Typical Applications

- Bisplate 80, Weldten 80 and similar materials
- ASTM A514, A543, A724 and A782 quenched and tempered plate

Welding Positions



Shielding Gas

- 75-95% Argon / Balance CO₂
- 95-98% Argon / Balance O₂
- Flow Rate: 15-20 L/min

Diameter / Packaging / Settings

Diameter mm	Part Number	Packaging	WFS ipm	Voltage volts	Current amps	CTWD mm
1.1	ED031417	Steel Spool BS 30015kg	125-400	19-28	145-350	15-20

Mechanical Properties - As required per AWS A5.28

	Yield Strength MPa	Tensile Strength MPa	Elongation %	Charpy V-Notch J @ -51°C
Requirements - AWS ER100S-G, As Welded - Gas Not Specified	Not specified	690 min	Not specified	Not specified
Requirements - ER110S-G, As Welded - Gas Not Specified	Not specified	760 min	Not specified	Not specified
Typical Results - As Welded at 30 kJ/in with 95% Ar/5% CO ₂	750	790	22	138
Typical Results - As Welded at 45 kJ/in with 98% Ar/2% CO ₂	730	780	20	118

Wire Composition

	%C	%Mn	%Si	%Ni	%Mo	%Cr	%V	%Cu
Typical Results	0.06	1.66	0.48	1.92	0.44	0.05	≤0.01	0.12