SuperArc® Orbital TIG L-52 N

AWS ER70S-2 • Mild Steel

Typical Applications

- Nuclear power plant construction and maintenance
- Power and process industry related piping
- ▶ Medium to heavy mill scale base material
- Robotic or hard automation

ASME IX Qualification

ASME IX Qualification: QW432 F-No 6,

QW442 A-No 1

Conformances

AWS A5.18/A5.18M: 2005: ER70S-2 ASME SFA-A5.18: ER70S-2

Welding Positions

All

Key Features

- Q2 Lot® Certificate showing actual wire composition available online
- Available as Batch Managed Inventory
- "N" Designator design modified to meet properties after stress relief
- A PLW product which has been treated to minimize weld defects that can be seen in the use of MIG wires for the automatic TIG process
- Provides a consistent and exceptionally stable arc for automatic TIG welding
- Contains zirconium, titanium, and aluminum in addition to silicon and manganese
- Produces x-ray quality welds over most surface conditions
- Recommended for TIG welding on all grades of steel
- Excellent choice for PWHT applications
- Each spool is identified with AWS classification and LOT number

DIAMETERS / PACKAGING

Diameter	2 lb (1 kg) Plastic Spool	10 lb (4.5 kg)		
in (mm)	8 lb (3.6 kg) Master Carton	Plastic Spool		
0.035 (0.9)	ED033947	ED033948		

WIRE COMPOSITION – As Required per AWS A5.18/A5.18M: 2005

	%С	%Mn	%S	%Si	%P	%Cu	%Cr
Requirements - AWS ER70S-2	0.07 max.	0.90-1.40	0.035 max.	0.40-0.70	0.0025 max.	0.50 max.	(1)
Typical Results ⁽²⁾	0.04	1.08	0.005	0.55	0.0003	0.20	0.08
	%Ni	%Mo	%V	%AI	%Ti	%Zr	
Requirements - AWS ER70S-2	(1)	(1)	(1)	0.05-0.15	0.05-0.15	0.02-0.12	
Typical Results ⁽²⁾	0.08	0.08	< 0.002	0.08	0.10	0.07	

[&]quot;Typical all weld metal. "Measured with 0.2% offset. "See test results disclaimer on pg. 12. "Copper due to any coating on the electrode plus the copper content of the filler metal itself, shall not exceed the stated 0.50% max. "CTWD (Contact Tip to Work Distance). Subtract 1/4 in (6.4 mm) to calculate Electrical Stickout. "Procedures in the shaded areas are procedures for short circuiting mode using 75% Argon, 25% CO₂, NOTE: For 100% CO₃ procedures, add 1 to 2 volts for short circuit transfer and 2 to 3 volts for globular transfer.