

Advantage[™] Solid Welding Wire



Features and Benefits

- Excellent feedability
- · Consistent feeding supports short circuit, globular, axial and pulsed spray transfer
- Excellent wetting characteristics
- High in deoxidizers
- Smooth weld beads with uniform tie-in
- Best choice for moderate rust and mill-scale

• A5.18/SFA5.18

Classification **Specifications**

• ER70S-6

Shielding Gas

StarGold[™] family of gases and other argon rich welding blends.

- Stargon[™] CS
- Stargon VS
- 100% CO₂

Advantage ER70S-6 solid welding wire is a solid, copper-coated welding wire for all position welding of carbon steel. Spools are level-wound and feature consistent feeding. The product is high in deoxidizers and is ideal for welding over moderate rust and mill-scale using Argon rich blends or 100% CO.

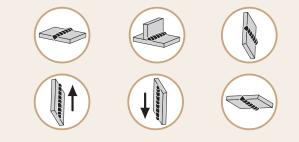
Applications:

For single and multipass applications including:

- Machinery
- Shipbuilding
- Trailers General Fabrication Offshore Construction

• Bridges

Welding Positions:





Trust Advantage solid welding wire to consistently meet your needs-everyday.







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Typical Chemical Analysis (as welded)

Weld Metal Analysis	Filler Metal	AWS Specification
Carbon (C)	0.065	0.06-0.15
Manganese (Mn)	1.45	1.40-1.85
Silicon (Si)	0.83	0.80-1.15
Phosphorus (P)	0.012	0.025 Max
Sulphur (S)	0.013	0.025 Max
Copper (Cu)	0.011	0.50 Max

Typical Mechanical Properties (as welded)

Mechanical Tests	Filler Metal	AWS Specification
Tensile Strength	83 ksi 575 Mpa	73 ksi 500 Mpa Min
Yield Strength	69 ksi 475 Mpa	61 ksi 420 Mpa Min
Elongation % in 2" (50 mm) 27%		22% Min

Typical Charpy V-Notch Impact Test Results (as welded)

CVN Temperatures	Filler Metal	AWS Specification
Avg. at -20°F (-30°C)	60 ft-lbs 82 Joules	20 ft-lbs 27 Joules Min

Commonly Ordered Part Numbers

Wire Type	Diameter (in.)	Packaging	Part Number
ER70S-6	.035	44lb Spool	ADG035-E70S6-44
ER70S-6	.045	44lb Spool	ADG045-E70S6-44
ER70S-6	.052	44lb Spool	ADG052-E70S6-44
ER70S-6	.035	550lb Drum	ADG035-E70S6550
ER70S-6	.045	550lb Drum	ADG045-E70S6550

Storage

- Store in a dry, enclosed environment
- Store in its original, intact packaging

Standard Diameters

- 0.035" (0.9 mm) available in 44 lb box and 550 lb drum
- 0.045" (1.2 mm) available in 44 lb box and 550 lb drum
- 0.052" (1.4 mm) available in 44 lb box

Note: Other sizes available upon request.



Advantage solid welding wire is well protected against moisture – is paper lined and wrapped twice in plastic, with silica gel for moisture control.



Please dispose of wrappings in a proper manner-recycle where possible.



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