

Quality Management System in accordance, with ISO 9001 Cert # 05-R0925

Fax (704)598-6673

SF-1A **COPPER COATED Steel** Seamless Flux Cored

U.S. ALLOY CO. dba Washington Alloy 7010-G Reames Rd. Charlotte, NC 28216 www.weldingwire.com



GAWDA

ALLOY DESCRIPTION AND APPLICATION:

SF-1A is a copper coated flux cored seamless wire for single or

multi-pass welds on mild steel and higher strengths steels. Noted for its copper and seamless sheath giving it many outstanding benefits such as; Superior moisture, excellent surface rust protection, electrical arc transfer, absorption resistance, delivers flawless low diffusible hydrogen levels throughout

the entire spool, much lower friction wear on liners and tips, extremely stable and pin point arc generation, excellent bead shape and appearance and ease of slag removal. It has very good deposit efficiency when used for flat and fillet welds of medium and heavy thickness plates while. It has been designed to be used with 75-80% Argon + balance CO2 mixed shield gas.

TYPICAL GMAW WELDING PROCEDURES; DCEP 75Ar/25Co2

Wire Diameter	Wire Speed (ipm)	Amps	Volts Electric	e stick out	75Ar/25Co ₂ (cfh)
0.045	200- 450 -600	150- 250 -335	22- 29 -33	1/2-1"	35-45
0.052	150- 400- 600	140- 275 -390	19- 28 -35	1/2-1"	40-50
1/16"	150- 330 -490	150- 330 -475	23 -30 -38	1/2-1"	40-50

Procedures may vary with change in position, base metals, filler metals, equipment and other changes.

SF-1A CHEMISTRY (%) for Undiluted WELD METAL & PROPERTIES

((AWS Requirement	s) Typical	(AW	(AWS Requirements)	
Carbon	0.12 max	0.04			
Manganese	1.75 max	1.34	Tensile Strength (psi)	70-95,000	86,131
Silicon	0.90 max	0.56	Yield Strength (psi)	58,000 min.	78,010
Phosphorus	0.030 max.	0.024	Elongation in 2"	22 % min.	26.1
Sulfur	0.030 max.	0.007	Charpy V-notch at -20°F	20 ft·lbs min.	56.3
Copper	0.35 max.	0.030			
Nickel	0.50 max.	0.01	Chromium	0.20 max.	0.04
Molybdenur	m 0.30 max.	0.02	Vanadium	0.08 max.	0.01

Iron balance and all single values are maximum percentages unless noted;

AVAILABLE SIZES: TCC NSSW SF-1A = Spools of .035, .045, 1/16"

SPECIFICATIONS: AWS A5.20 E71T-1M-9M **ASME SFA** 5.20 E71T-1M -9M

E71T1-M21A0[A2]-CS1-H4 **AWS** A5.36 **ASME SFA** 5.36 E71T1-M21A0[A2]-CS1-H4

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