

Cored Welding Wire Stainless & Mild Steel





Eagle-Arc Cored Wires Stainless Steel Flux-core

AWS A5.22

Eagle-Arc E308LT1-1/4 is an all-position flux cored stainless wire designed for single and multi-pass welds on stainless plate, bars, pipe and other stainless applications. This alloy is suitable for welding stainless grades 201 202, 301, 302, 302B, 303, 303Se, 304, 304L, 305 and 308 and can be used in some cases as an alternate alloy for welding 321, 347 and many 400 series stainlesses. This wire is noted for it's low spatter, excellent bead shape, superior tie-in and easy slag removal. Our extra-low carbon formulation provides weld deposits with optimum ferrite with an austenitic structure resulting in low susceptibility to intergranular corrosion. Also resists stress corrosion cracking and carbide precipitation.

Eagle-Arc E308LT0-1/4 is also available for flat and horizontal welding where higher travel speeds and deposition rates are desired, along with improved tie-in.

Typical Chemistry	Typical Mechanical Properties	Typical Welding Parameters
C - 0.03	Tensile strength - 84,000 psi	Shielding gas Argon/CO ₂ (75/25 or 80/20)
Cr - 19.30	Yield point - 62,000 psi	or 100% CO2
Ni - 10.00	Elongation - 36%	Amps Flat Horizontal Vertical
Mn - 1.32		.045 130-300 150-300 130-240
Si - 0.65		1/16 170-300 200-300 150-280
Actual Chemical Certification available on request.		Electrical stick out: 1/2 - 3/4" DC+

Eagle-Arc E309LT1-1/4 is an all-position flux cored stainless wire can be used on a variety of alloys, both stainless and combinations of stainless and mild, carbon and low alloy steels. The higher chromium and nickel content provides good weld deposits with increased resistance to scaling, corrosion and heat, over E308LT1-1/4. This wire is noted for it's easy operator appeal, featuring low spatter, excellent bead appearance, penetration and tie-in, along with a crisp easy slag removal. Welds most 400 series stainless steels.

Typical Chemistry	Typical Mechanical Properties	Typical Welding Parameters		
C - 0.03	Tensile strength - 84,000 psi	Shielding gas Argon/CO2 (75/25 or 80/20)		
Cr - 22.70	Yield point - 62,000 psi	or 100% CO2		
Ni - 12.75	Elongation - 36%	Amps Flat Horizontal Vertical		
Mn - 1.46		.045 130-300 150-300 130 240		
Si - 0.68		1/16 170-300 200-300 150-280		
E309LT0-1/4 is also availa	able for flat and horizontal welding positions.	Electrical stick out: 1/2 - 3/4" DC+		
Actual Chemical Cerification available on request				

Eagle-Arc E316LT1-1/4 is an all-position flux cored stainless wire with elevated levels of Molybdenum, giving the E316LT1-1/4 higher heat and corrosion resistance over E308LT1-1/4. This alloy has Improved pitting resistance induced by sulfuric and sulfurous acids, chlorides and cellulose solutions. 316L is commonly used in food preparation equipment, dairy, pulp, rayon, dye industries and hot chemical equipment.

Typical Chemistry	Typical Mechanical Properties	Typical Welding Parameters		
C - 0.03	Tensile strength - 84,000 psi	Shielding gas: 100% CO2 or Argon/CO2		
Cr - 18.90	Yield point - 62,000 psi	(75/25 or 80/20)		
Ni - 12.20	Elongation - 36%	Amps Flat Horizontal Vertical		
Mn - 1.45		.045 130-300 150-300 130-240		
Si - 0.65		1/16 170-300 200-300 150-280		
Mo - 2.23				
E316LT0-1/4 is also avai	lable for flat and horizontal welding positions	Electrical stick out: 1/2 - 3/4" DC+		
Actual Chemical Certification is available on request				

Eagle-Arc Cored Wires Eagle-Arc 71

Eagle-Arc 71 Flux Core is an all-position, single or multi-pass wire for welding on mild and carbon steel. Features excellent feedability and operator appeal including; stable arc, low fume emissions and low spatter levels. Weld deposit exhibits good tie-in and geometry with self-peeling slag. This wire is designed for use with 100% CO2 or 75-80% Argon, balance CO2 mixed gases. Yields good penetration on light, medium or heavy gauge plate. 71 is a great choice for bridge structures, ship building, earth moving equipment and all general fabrication requirements.

Typical Chemistry	Typical Mechanical Properties
C - 0.03	Tensile Strength - 86,000 psi
Mn - 1.45	Yield Strength - 81,000 psi
Si - 0.30	% elongation - 26
P - 0.015	CVN 55 ft-lbs @ 0°F
S - 0.010	

Recommended Parameters

Shielding gas Ar/CO₂ (75-80% Ar) or 100% CO2 Horizontal vertical Amps Flat .045 120-320 120-250 120-260 1/16 150-400 200-400 160-280 Electrical stick-out 1/2 - 3/4" DC+

Actual Chemical Certification available on Request



Eagle-Arc 70C Metal Core is a gas shielded wire for single or multi-pass welding in the flat or horizontal position on mild steel. This alloy is virtually free of spatter and slag, drastically reducing clean-up time. The smooth, stable arc leaves an excellent bead appearance with superior tie-in. This alloy is formulated for high deposition and weld efficiency and will operate on shielding gas with 75-80% argon/balance CO2. Common uses include; Construction, erection and fabrication of heavy equipment, construction machinery and general fabrication of mild steel.

Typical Chemistry

C - 0.04 Mn - 1.55 Si - 0.54 P - 0.014 S - 0.015 **Typical Mechanical Properties** Tensile Strength - 89,000 psi Yield Strength - 77,000 psi % elongation - 27 29 ft-lbs @ 0°F to CVN 35 ft-lbs @ -20°F

Recommended Parameters Shielding gas Ar/CO₂ (75-80% Ar)

Amps Flat Horizontal .045 160-350 180-360 220-450 1/16 280-450 Electrical stick-out 1/2 - 3/4" DC+

Actual Chemical Certification available on request

Packaging

Eagle-Arc Cored Wires come in the following spool sizes:

.045 x 10, 33 & 44 lb spool

.052 x 33 & 44 lb spool

1/16 x 33 & 44 lb spool

33 and 44 lb spools are hermetically sealed in vacuum packaging.

For spools, coils and drums not shown

please contact your Washington Alloy representative for quotation.



Washington Alloy maintains an ISO 9001 certified quality management system

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