

STAINLESS STEEL WELDING ELECTRODES

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CALL FOR INFORMATION ON OTHER ALLOYS, SIZES & ELECTRODE COATINGS ALSO SEE STAINLESS FILLER METAL SELECTOR GUIDE

WELDING STAINLESS STL INFO.

TYPICAL CERTIFICATIONS ON MECHANICAL & CHEMICAL PROPERTIES ARE INCLUDED ON THIS AND THE PRECEDING PAGE CALL FOR PRICE AND AVAILABILITY IF ACTUAL CERTIFICATIONS ARE REQUIRED ON EITHER PROPERTY PRIOR TO PURCHASE



SS FILLER METAL SELECTOR GUIDE

ELECTRODE CHART

Part No	Price per Pack	Size (dia)	Packaging	Usages	Typical Chemical Composition	Mechanical Properties of All Weld Metal (as welded)
E316-16 AWS A5.4						
316-16-332-1	\$14.95	3/32	1 lb Pack	316 electrodes are designed for welding wrought and cast forms of similar composition. The presence of molybdenum increases the creep resistance at elevated temperatures and offers good resistance to pitting corrosion. Applications include welding of equipment for chemical and process industries.	Carbon055 Manganese 1.7 Silicon..... .56 Chromium.....18.85 Nickel 12.90 Molybdenum...2.35 Sulfur......024 Phosphorus... .025 Iron.....Balance	Tensile Strength 87,500 PSI...600 MPA Yield Strength 58,500 PSI...400 MPA Elongation....36%
316-16-332-8	\$78.00	3/32	8 lb Pack			
316-16-332-10	\$97.50	3/32	10 lb Pack			
316-16-18-1	\$12.95	1/8	1 lb Pack			
316-16-18-10	\$90.00	1/8	10 lb Pack			
316-16-532-1	\$12.95	5/32	1 lb Pack			
316-16-532-10	\$90.00	5/32	10 lb Pack			
E316L-16 AWS A5.4						
316L16-332-1	\$15.95	3/32	1 lb Pack	The weld deposit of 316L electrodes is similar to that of Type 316, except the carbon is limited to a maximum of 0.04%. Precise control at the carbon content in 316L electrodes provides a weld deposit matching the corrosion resistant qualities of Type 316L stainless steel. The extra low carbon content reduces the possibility of carbide precipitation and consequent intergranular corrosion.	Carbon035 Manganese 1.75 Silicon..... .52 Chromium.....18.7 Nickel 12.65 Molybdenum...2.30 Sulfur......022 Phosphorus... .024 Iron.....Balance	Tensile Strength 85,800 PSI..590 MPA Yield Strength 58,000 PSI..400 MPA Elongation....36%
316L16-332-8	\$80.00	3/32	8 lb Pack			
316L16-332-10	\$100.00	3/32	10 lb Pack			
316L16-18-1	\$13.95	1/8	1 lb Pack			
316L16-18-10	\$95.00	1/8	10 lb Pack			
316L16-532-1	\$13.95	5/32	1 lb Pack			
316L16-532-10	\$95.00	5/32	10 lb Pack			
E317L-16 AWS A5.4						
317L16-332-1	\$16.95	3/32	1 lb Pack	The weld deposit of 317L is similar to that of Type 317, except the carbon is limited to a maximum of 0.04%. In addition to the resistance to pitting and crevice corrosion, this consumable offers good resistance to intergranular corrosion.	Carbon035 Manganese 1.65 Silicon..... .55 Chromium.....18.75 Nickel 13.0 Molybdenum.... 3.4 Sulfur......019 Phosphorus... .022 Iron.....Balance	Tensile Strength 82,500 PSI..570 MPA Yield Strength 58,000 PSI..400 MPA Elongation....38%
317L16-332-8	\$85.00	3/32	8 lb Pack			
317L16-332-10	\$106.25	3/32	10 lb Pack			
317L16-18-1	\$14.95	1/8	1 lb Pack			
317L16-18-10	\$99.00	1/8	10 lb Pack			
317L16-532-1	\$14.95	5/32	1 lb Pack			
317L16-532-10	\$99.00	5/32	10 lb Pack			
E320-16 AWS A5.4						
320-16-332-8	\$95.00	3/32	8 lb Pack	320 electrodes are designed for welding of alloys of similar composition in wrought and cast forms. The weld metal provides exceptionally good corrosion resistance to a wide range of chemical environments. The weld deposit is fully austenitic, and as such the heat input has to be limited to minimum during welding to avoid microfissuring.	Carbon04 Manganese 1.95 Silicon..... .52 Chromium.....20.10 Nickel 33.75 Molybdenum...2.55 Columbium+ Tantalum72 Copper 3.55 Sulfur......019 Phosphorus... .022 Iron.....Balance	Tensile Strength 86,000 PSI...590 MPA Yield Strength 59,000 PSI...410 MPA Elongation....33%
320-16-332-10	\$118.75	3/32	10 lb Pack			
320-16-18-10	\$109.50	1/8	10 lb Pack			
320-16-532-10	\$109.50	5/32	10 lb Pack			
E330-16 AWS A5.4						
330-16-332-8	\$144.00	3/32	8 lb Pack	330 electrodes are used to weld wrought and cast forms of stainless steels of similar chemical composition, which offer good heat and scale resistance above 1800°F (980°C). However, high sulfur environments adversely affect the high temperature performance. The heat input has to be kept to a minimum during welding to avoid the possibility of microfissuring,	Carbon21 Manganese 1.9 Silicon..... .48 Chromium.....15.45 Nickel 34.4 Sulfur......023 Phosphorus... .021 Iron.....Balance	Tensile Strength 84,500 PSI..580 MPA Yield Strength 57,000 PSI..390 MPA Elongation....26%
330-16-332-10	\$180.00	3/32	10 lb Pack			
330-16-18-10	\$165.00	1/8	10 lb Pack			
330-16-532-10	\$165.00	5/32	10 lb Pack			
E347-16 AWS A5.4						
347-16-332-1	\$14.95	3/32	1 lb Pack	347 electrodes are columbium stabilized stainless steel electrodes used for the welding of Types 347 and 321 stainless and stainless clad steels. The columbium content is approximately ten times the carbon content, and when this product is used to weld stabilized Type 347 or 321 parent metal, it precludes intergranular corrosion under severe operating conditions.	Carbon55 Manganese 1.65 Silicon..... .52 Chromium.....19.15 Nickel 10.15 Columbium75 Sulfur......017 Phosphorus... .024 Iron.....Balance	Tensile Strength 86,500 PSI... 5900 MPA Yield Strength 57,000 PSI... 390 MPA Elongation.... 35%
347-16-332-8	\$78.00	3/32	8 lb Pack			
347-16-332-10	\$97.50	3/32	10 lb Pack			
347-16-18-1	\$13.95	1/8	1 lb Pack			
347-16-18-10	\$90.00	1/8	10 lb Pack			
347-16-532-1	\$13.95	5/32	1 lb Pack			
347-16-532-10	\$90.00	5/32	10 lb Pack			

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