

Satin Glide® 316L Stainless-Steel Welding Wire



Satin Glide® 316L Stainless-Steel Welding Wire from NS ARC is a stainless-steel filler metal with low carbon content that is specifically designed for welding applications that involve 316 or 316L stainless steels.

The low carbon content within this welding wire reduces the possibility of carbide precipitation, which can lead to sensitization and intergranular corrosion.

Manufacturing Advantages

- All metal transfer modes of GMAW
- Robotic, mechanized, or semi-automatic welding
- Single and multi-pass weldments
- Dissimilar base metal welding
- Lower carbon content to reduce risk of carbide precipitation and sensitization
- Compatible with various austenitic stainless-steel base metals
- Smooth arc characteristics for precise control and consistent weld appearance

Welding Positions

All position welding is possible when using the correct shielding gas blends, welding process, and welding parameters.

Shielding Gas Blends

- Short Circuit Transfer: 90% Helium, 7-1/2% Argon, 2-1/2% CO₂
- Spray Transfer: 95-98% Argon, 2-5% CO₂
- Spray Transfer: 98-99% Argon, 1-2% O₂
- Flow rate: 35-50 CFH

Applications

- Agricultural Equipment
- Auto Body
- Automotive Exhaust
- General Fabrication
- Heavy Equipment
- Pipe Welding
- Pressure Vessels
- Railcars
- Shipbuilding
- Structures
- Trailers

Specifications

Meets or Exceeds:

- AWS A5.9/A5.9M: ER316, ER316L
- ASME SFA-A5.9: ER316, ER316L
- ASME Section III Nuclear requirements

Storage

Welding wire should be stored in a dry, enclosed environment and in its originally sealed package.

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Stainless Steel Filler Metals for Welding Dissimilar Metals

201,202, 301,302, 302B,303, 304,305,308	304L	309, 309S	310, 310S, 314	316	316L	317	317L	321, 347, 348	330	403,405, 410,414, 416,420	430,430F, 431,440A, 440B,440C	448	501, 502	505	CARBON STEEL	CR-MO STEEL
				316	316	316	316	308	309 Mo	309	309	310	309	309	309	309

Typical Wire Chemistry Percentages (as required per AWS)

ASME SFA 5.9	AWS A5.9/ AWS A5.9M	Carbon	Cr	Ni	Mn	Si	OTHER
Yes	Yes	0.03 Max	18.00/20.00	12.00/14.00	1.60/2.50	0.45/0.75	Mo 2.00/2.50



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