

At Metals And Welding Specialities, we supply premium-grade **ER-316/316L MIG & TIG Welding Wire** designed for outstanding corrosion resistance, durability, and weld integrity in demanding environments. Engineered with precision, this filler metal meets the highest industrial standards and provides exceptional performance when joining austenitic stainless steels of similar composition. The **ER-316/316L** alloy is a low-carbon variant, offering superior protection against carbide precipitation during welding, which ensures long-term stability and reliability in critical applications.



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This welding wire is classified under **UNS S31603** and conforms to **ASTM A580/A580M** standards. Known universally as Type 316/316L Stainless Steel, it is alloyed with controlled amounts of chromium, nickel, and molybdenum, providing excellent resistance to pitting, crevice corrosion, and general oxidation in chloride and marine environments. The low carbon content (the "L" in 316L) minimizes intergranular corrosion, making it ideal for fabrication where post-weld heat treatment is impractical.



ER-316/316L MIG & TIG Welding Wire, ER-316/316L MIG & TIG Welding Wire Manufacturers, ER-316/316L MIG & TIG Welding Wire Suppliers, ER-316/316L MIG & TIG Welding Wire Stockists, ER-316/316L MIG & TIG Welding Wire Exporters

Metals And Welding Specialities' **ER-316/316L welding wire** delivers a smooth, stable arc with minimal spatter, resulting in clean, high-quality weld beads. It performs consistently in both **MIG (GMAW)** and **TIG (GTAW)** processes, whether used for manual or automated welding. Our wire is widely chosen across industries such as petrochemical processing, food and beverage manufacturing, pharmaceuticals, shipbuilding, and offshore structures—anywhere corrosion resistance and hygiene standards are paramount.

When welding stainless steel components exposed to harsh chemicals, saline water, or acidic conditions, the **ER-316/316L filler metal** offers unmatched protection and mechanical strength. Its metallurgical composition ensures ductility and toughness even at low temperatures, maintaining structural integrity and visual appearance over time. The precision drawing and spooling process at Metals And Welding Specialities guarantees uniform wire diameter, steady feed performance, and consistent metallurgical properties throughout every batch.



ER-316/316L MIG & TIG Welding Wire in India, ER-316/316L MIG & TIG Welding Wire Manufacturers in India, ER-316/316L MIG & TIG Welding Wire Suppliers in India, ER-316/316L MIG & TIG Welding Wire Stockists in India, ER-316/316L MIG & TIG Welding Wire Exporters in India

Our commitment to quality control ensures that every spool of **ER-316/316L MIG & TIG wire** undergoes rigorous testing to meet or exceed international specifications. Whether you require wire for general stainless steel fabrication or specialized chemical processing equipment, Metals And Welding Specialities delivers reliable, high-performance welding consumables that uphold your project's quality and longevity.

For optimal results, use **ER316/316H filler wire** with argon or argon-based shielding gases to ensure smooth, stable arcs and superior penetration. Its unique metallurgical composition prevents dilution effects that typically reduce strength in mixed-metal welds. When durability, safety, and performance are non-negotiable, ER-316/316L stands as a dependable solution engineered to exceed expectations in demanding welding environments.

Specification ER-316/316L MIG & TIG Welding Wire



Classification	AWS A5.9, ER316/316L
Form	MIG spools, TIG cut lengths, Reels and Coils
Type Of Welding	Inert Gas Welding
Current	MIG-DCEP / TIG-DCEN
Diameters	.023", .030", .035", .045", 1/16", 3/32", 1/8"
Standard TIG straight lengths are available	36" (914 mm) or 39" (1000 mm) lengths. Other lengths available upon request.

AWS ER316/316L MIG & TIG Filler Metal Application & uses

Hardware tools
Metallurgy
Machinery
Construction
Shipbuilding
Petroleum
Chemical plant
Power sector
Gas Industry

Equivalent Grade Of ER-316/316L MIG & TIG Welding Wire



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Class	UNS	Oxford Alloys	SANDVIK	BOHLER
ER316/316L	S30888	Alloy 316/316L	EXATON 19.12.3.L / EXATON 19.12.3.LR E316L-17	BOHLER THERMAINT GE-316L

ER-316/316L MIG & TIG Welding Wire Chemical Composition



C	Cr	Ni	Mo	Mn	Si	P	S	Cu
0.03	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	0.03	0.75

ER-316/316L MIG & TIG Welding Wire Parameters



Diameter		Process	Volt	Amps	Shielding Gas
in	(mm)				
.035	(0.9)	GMAW	22-23	180-210	Spray transfer 98% Argon/2% Oxygen
.045	(1.2)	GMAW	23-25	195-260	Spray transfer 98% Argon/2% Oxygen
1/16	(1.6)	GMAW	25-28	260-390	Spray transfer 98% Argon/2% Oxygen
.035	(0.9)	GMAW	19-23	55-170	Short Circuiting Transfer 90% Helium/ 7 ½% Argon / 2 ½% CO ₂
.045	(1.2)	GMAW	19-23	100-185	Short Circuiting Transfer 90% Helium/ 7 ½% Argon / 2 ½% CO ₂
.035	(0.9)	GTAW	13-16	70-120	100% Argon
.045	(1.14)	GTAW	13-16	70-120	100% Argon
1/16	(1.6)	GTAW	14-18	90-130	100% Argon
3/32	(2.4)	GTAW	15-20	120-175	100% Argon

1/8	(3.2)	GTAW	15-20	150-220	100% Argon
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People Also Searched

ER316L filler wire, AWS A5.9 ER316L, stainless steel welding wire 316L, UNS S31603 wire, ASTM A580 ER316L, 316L TIG filler rod, 316L MIG wire, stainless steel TIG rod 316L, Type 316L welding consumable, low carbon stainless steel filler metal, 316L welding wire price, 316L stainless wire suppliers, ER316 vs ER316L, molybdenum alloy welding wire, corrosion resistant welding wire, food grade stainless steel wire, marine grade stainless filler, heat resistant stainless filler, stainless steel TIG wire UNS S31603, GTAW filler metal 316L, GMAW stainless wire 316L, ER316L composition, ER316L mechanical properties, 316L stainless steel electrode, stainless welding consumables, TIG filler wire for 316L, 316L wire for chemical industry, stainless steel joining wire, 316L stainless rod, ER316L for pipe welding, stainless welding wire with molybdenum, ER316L industrial grade wire, 316L wire for food processing, stainless TIG welding wire suppliers, AWS A5.9 standard wire, ER316L high corrosion resistance wire, stainless steel filler rod 316L.