

At Metals And Welding Specialities, we manufacture and supply high-quality **ER309/309L MIG & TIG Welding Wire** welding wires designed for superior performance in joining similar and dissimilar stainless steels. This alloy is formulated with balanced chromium and nickel content, ensuring excellent corrosion and oxidation resistance, even in high-temperature environments. The dual-grade composition of ER309/309L combines the strength of ER309 with the low carbon benefits of ER309L, offering exceptional weld integrity while minimizing carbide precipitation and intergranular corrosion.

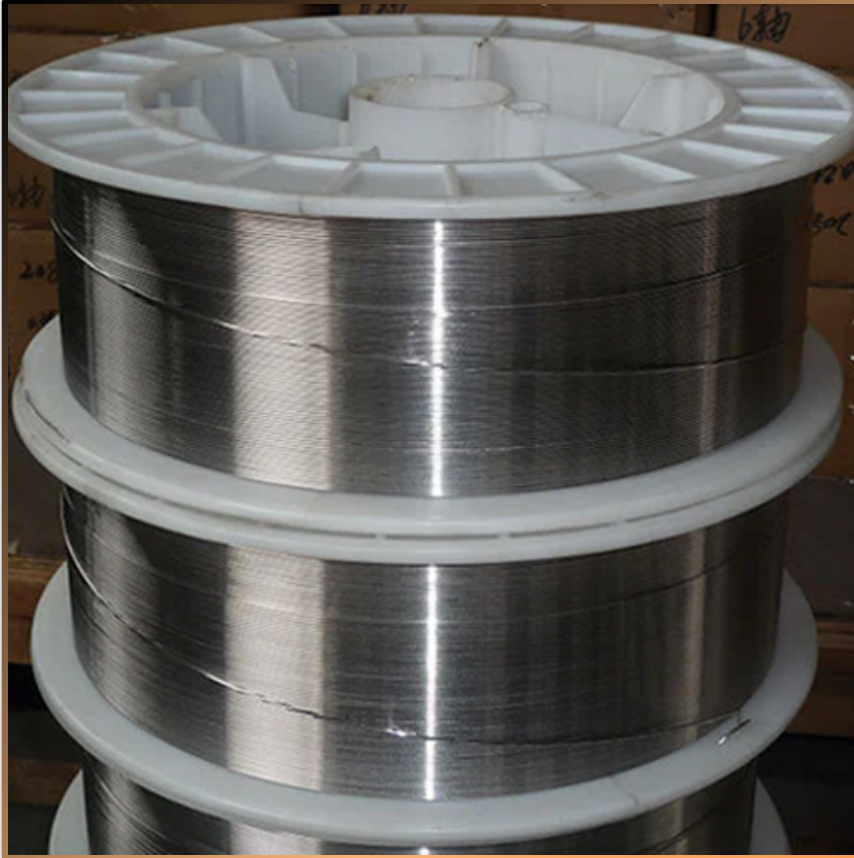


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Our **ER309/309L stainless steel welding wire** is classified under UNS S30983 and conforms to ASTM A240 Grade 309L standards, ensuring consistency and reliability in industrial applications. It is widely used in industries such as petrochemical, food processing, chemical manufacturing, and power generation, where resistance to heat and corrosion is essential. This filler metal performs exceptionally when welding stainless steel to mild steel or carbon steel, maintaining high strength and crack resistance across varying thermal conditions.



ER309/309L MIG & TIG Welding Wire, ER309/309L MIG & TIG Welding Wire Manufacturers, ER309/309L MIG & TIG Welding Wire Suppliers, ER309/309L MIG & TIG Welding Wire Stockists, ER309/309L MIG & TIG Welding Wire Exporters

ER309/309L MIG wire from Metals And Welding Specialities provides smooth feeding, stable arc performance, and minimal spatter, making it suitable for both automated and manual welding processes. When used in MIG (GMAW) and TIG (GTAW) applications, it delivers a clean, stable weld bead with outstanding slag detachability. The low carbon content (L-grade) effectively prevents sensitization, making it ideal for components that operate under prolonged thermal exposure or cyclic heating conditions.

The weld deposits from **ER309/309L TIG wire** exhibit superior mechanical properties, including high tensile strength and good ductility. It is a preferred choice for cladding carbon steel with stainless steel, welding buffer layers before hardfacing, and fabricating equipment that must endure extreme service conditions. Its excellent oxidation resistance up to 1000°C (1832°F) ensures durability and reliability, even in harsh environments where standard stainless steels might fail.



ER309/309L MIG & TIG Welding Wire in India, ER309/309L MIG & TIG Welding Wire Manufacturers in India, ER309/309L MIG & TIG Welding Wire Suppliers in India, ER309/309L MIG & TIG Welding Wire Stockists in India, ER309/309L MIG & TIG Welding Wire Exporters in India

At Metals And Welding Specialities, each batch of **ER309/309L filler wire** undergoes rigorous quality testing to meet international standards and ensure consistent performance. Our advanced manufacturing facilities and stringent quality assurance systems guarantee that every spool and coil meets the highest specifications for weld purity, strength, and finish. With Metals And Welding Specialities, customers can rely on unmatched product integrity, technical expertise, and dependable supply for all their stainless-steel welding needs.

Specification ER309/309L MIG & TIG Welding Wire



Classification	AWS A5.9, ER309/309L
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 A5.9, ER309/309L MIG & TIG Filler Metal Application & uses

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

Equivalent Grade Of ER309/309L MIG & TIG Welding Wire



Class	UNS	Oxford Alloys	SANDVIK	BOHLER
ER309/309L	S30983	Alloy 309/309L	EXATON 22.15.3.L	BOHLER THERMAINT 25/14 E-309L

ER309/309L MIG & TIG Welding Wire Chemical Composition



C	Cr	Ni	Mo	Mn	Si	P	S	Cu
0.03	23.0-25.0	12.0-14.0	0.75	1.0-2.5	0.30-0.65	0.03	0.03	0.75

ER309/309L 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	(1.14)	GMAW	19-23	100-185	Short Circuiting Transfer 90% Helium/ 7 ½% Argon / 2 ½% CO ₂
.035	(0.9)	GTAW	12-15	60-100	100% Argon
.045	(1.14)	GTAW	13-16	70-120	100% Argon
1/16	(1.6)	GTAW	14-16	90-130	100% Argon
3/32	(2.4)	GTAW	15-20	120-175	100% Argon
1/8	(3.2)	GTAW	16-20	150-220	100% Argon

People Also Searched

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