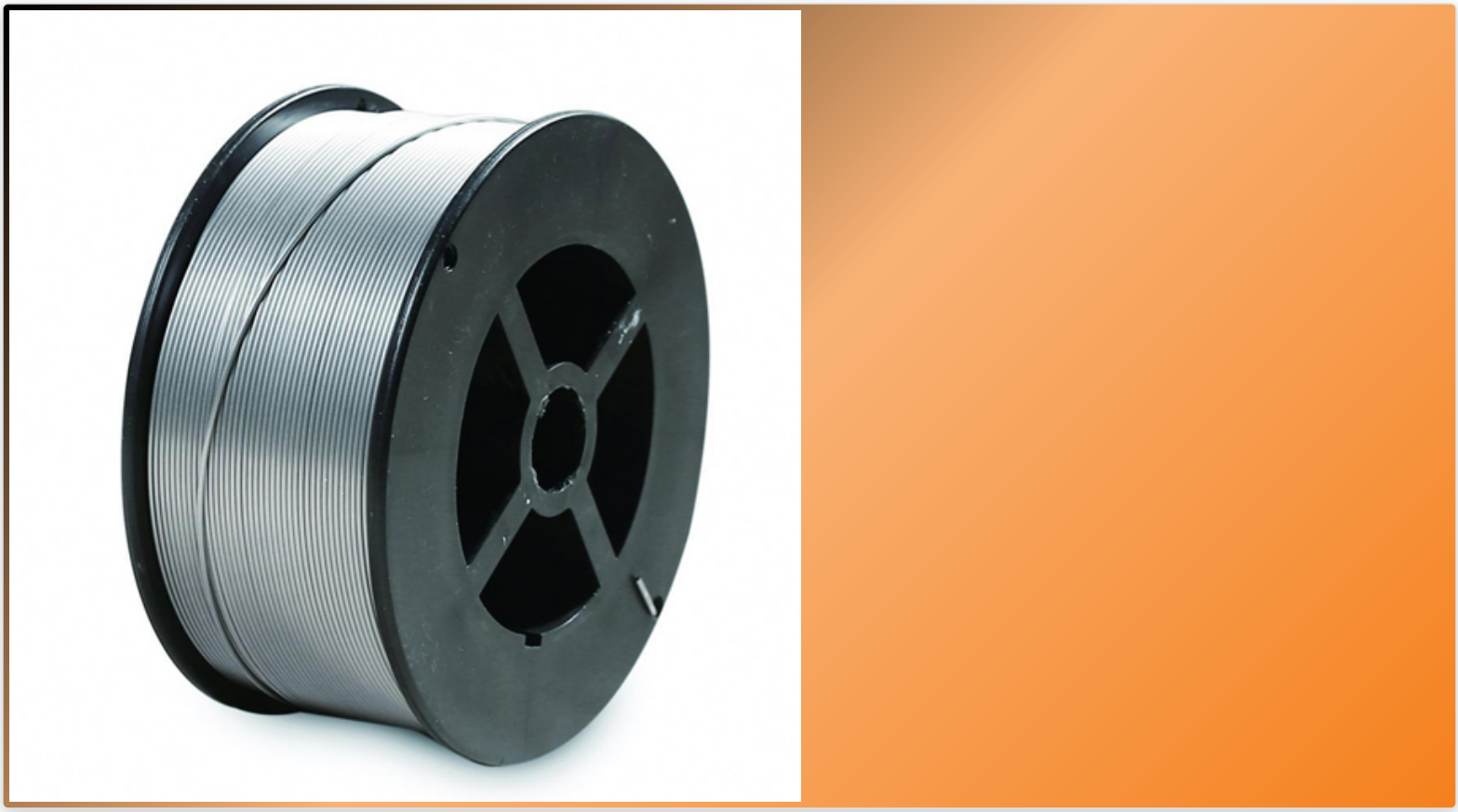
The **ER310 MIG & TIG Welding Wire** welding wire from **Metals And Welding Specialities** is a premium-grade stainless steel filler metal engineered for superior performance in high-temperature and corrosion-resistant applications. Designed according to **ASTM A580** and identified under **UNS S31000**, this alloy delivers exceptional strength, oxidation resistance, and weld integrity across demanding industrial environments. With its precise chemical balance of chromium and nickel, ER310 ensures a stable arc, smooth bead appearance, and consistent mechanical properties when used in both MIG and TIG welding processes.



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This **ER310 stainless steel wire** is commonly used in joining and overlaying heat-resistant steels, furnace components, and exhaust systems that operate under continuous high-heat exposure. The high chromium content provides robust oxidation resistance, while the nickel component improves ductility and maintains toughness even after prolonged thermal cycling. Weld deposits produced by this alloy retain their strength at temperatures up to 2100°F (1150°C), making it the material of choice for petrochemical plants, heat-treatment facilities, and power generation sectors that require long-term reliability.

ER310 MIG & TIG Welding Wire, ER310 MIG & TIG Welding Wire Manufacturers, ER310 MIG & TIG Welding Wire Suppliers, ER310 MIG & TIG Welding Wire Stockists, ER310 MIG & TIG Welding Wire Exporters

Metals And Welding Specialities manufactures and supplies **ER310 MIG & TIG** filler metal in compliance with universal standards such as **AWS A5.9** and **ISO 14343-A G 25 20**. Each batch is precision-tested to ensure tight control over composition and mechanical properties. The result is a wire that not only minimizes carbon pick-up and carbide precipitation but also produces welds that resist scaling and creep deformation under thermal stress. Its excellent resistance to carburizing and reducing atmospheres allows it to perform effectively in furnace conveyors, radiant tubes, and annealing boxes where lesser alloys would fail.

Fabricators appreciate the superior arc stability and clean finish this alloy provides, reducing post-weld cleaning time and improving overall efficiency. Whether used in manual TIG operations or automated MIG systems, the **ER310** delivers consistent feedability and minimal spatter, even under challenging conditions. Its versatility makes it a trusted choice for welding dissimilar steels such as carbon steels or other austenitic grades, offering strong metallurgical bonding and corrosion resistance at the weld interface.

ER310 MIG & TIG Welding Wire in India, ER310 MIG & TIG Welding Wire Manufacturers in India, ER310 MIG & TIG Welding Wire Suppliers in India, ER310 MIG & TIG Welding Wire Stockists in India, ER310 MIG & TIG Welding Wire Exporters in India

Backed by decades of expertise, **Metals And Welding Specialities** ensures that every ER310 product meets stringent quality and performance benchmarks. Our technical specialists provide full traceability and application support to help industries achieve precise, durable, and reliable welds. When operating under extreme heat or corrosive conditions, the **ER310 MIG & TIG Welding Wire** wire is the dependable solution that combines metallurgical integrity with ease of operation — setting the standard for excellence in high-temperature stainless steel welding.

Specification ER310 MIG & TIG Welding Wire

Classification	**AWS A5.9, ER310**
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 ER310 MIG & TIG Filler Metal Application & uses	Hardware tools Metallurgy Machinery Construction Shipbuilding Petroleum Chemical plant Power sector Gas Industry

Equivalent Grade Of ER310 MIG & TIG Welding Wire

Class	UNS	Oxford Alloys	BOHLER
ER310	S31080	Alloy 310	BOHLER THERMAINT 310

ER310 MIG & TIG Welding Wire Chemical Composition

C	Cr	Ni	Mo	Mn	Si	P	S	Cu
0.08-0.15	25.0-28.0	20.0-22.5	0.75	1.0-2.5	0.30-0.65	0.03	0.03	0.75

ER310 MIG & TIG Welding Wire Parameters

Diameter		Process	Volt	Amps
in	(mm)			
.035	(0.9)	GTAW	12-15	60-90
.045	(1.14)	GTAW	13-16	80-110
1/16”	(1.6)	GTAW	14-16	90-130
3/32”	(2.4)	GTAW	15-20	120-175

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stainless steel joining wire, ER310 application industries, 310 stainless overlay welding, ER310 arc stability, ER310 creep strength, UNS S31000 rod, stainless MIG filler wire, ER310 alloy performance, ER310 vs ER308, ER310 vs ER316, stainless filler wire manufacturer, Metals And Welding Specialities ER310, ER310 heat treatment, stainless welding consumables supplier.