

At Metals And Welding Specialities, the **ER317L MIG & TIG Welding Wire** welding wire stands out as a premium solution for fabricators and manufacturers who demand exceptional corrosion resistance, superior weldability, and consistent mechanical performance. Designed for critical applications where strength and resistance to aggressive environments are essential, this alloy delivers high-quality welds with reduced carbon content, minimizing carbide precipitation and ensuring long-term stability in service.



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The **ER317L** wire corresponds to UNS S31703 and meets the requirements of ASTM A580 standards. This austenitic stainless steel filler metal is engineered for both MIG (GMAW) and TIG (GTAW) welding processes, offering excellent versatility across a range of industrial applications. Its molybdenum-rich composition, typically around 3–4%, enhances resistance to pitting and crevice corrosion, especially in chloride-bearing environments where conventional grades like ER316L might fall short.



ER317L MIG & TIG Welding Wire, ER317L MIG & TIG Welding Wire Manufacturers, ER317L MIG & TIG Welding Wire Suppliers, ER317L MIG & TIG Welding Wire Stockists, ER317L MIG & TIG Welding Wire Exporters

Welders trust **ER317L stainless steel wire** for its smooth arc stability, clean bead appearance, and minimal spatter, resulting in efficient, high-quality fabrication. The low carbon level ($\leq 0.03\%$) ensures superior intergranular corrosion resistance, making it suitable for use in chemical processing plants, marine systems, paper and pulp production, and desalination equipment. When used with an appropriate shielding gas, it maintains excellent weld pool control and consistent penetration, which are vital for precision joints and structural integrity.

The **ER317L MIG & TIG wire** from Metals And Welding Specialities is manufactured to strict quality control standards to ensure uniform wire diameter, precise chemical balance, and reliable feedability. Each spool undergoes rigorous inspection to guarantee defect-free performance and repeatable results in demanding environments. Whether used for overlaying, joining dissimilar metals, or fabricating stainless steel components, this filler metal provides consistent metallurgical integrity and corrosion protection across every weld seam.



ER317L MIG & TIG Welding Wire in India, ER317L MIG & TIG Welding Wire Manufacturers in India, ER317L MIG & TIG Welding Wire Suppliers in India, ER317L MIG & TIG Welding Wire Stockists in India, ER317L MIG & TIG Welding Wire Exporters in India

Its compatibility with base metals such as ASTM 317L, 316L, and similar stainless steels allows seamless integration into existing welding operations. The **ER317L TIG rod** is equally efficient in manual and automated systems, delivering strong, durable welds even under fluctuating temperature and pressure conditions. The combination of nickel, chromium, and molybdenum ensures outstanding resistance to sulfuric acid, acetic acid, and other harsh chemical agents, making it ideal for industries that cannot afford material degradation or weld failure.

By choosing Metals And Welding Specialities' ER317L MIG & TIG Welding Wire, users benefit from a product that merges technical excellence with operational dependability. Our commitment to quality ensures that every batch meets international standards and customer specifications, providing peace of mind and performance you can trust for every weld.

Specification ER317L MIG & TIG Welding Wire



Classification	AWS A5.9, ER317L
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 ER317L MIG & TIG Filler Metal Application & uses

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

Equivalent Grade Of ER317L MIG & TIG Welding Wire



Class	UNS	Oxford Alloys	SANDVIK	BOHLER
ER317L	S31783	Alloy 317/317L	EXATON 19.13.4.L	BOHLER AVESTA 317L /SNR

ER317L MIG & TIG Welding Wire Chemical Composition



C	Cr	Ni	Mo	Mn	Si	P	S	Cu
0.03	18.5-20.5	13.0-15.0	3.0-4.0	1.0-2.5	0.30-0.65	0.03	0.03	0.75

ER317L 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
1/16	(1.6)	GMAW			Short Circuiting Transfer 90% Helium/ 7 ½% Argon / 2 ½% CO ₂
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

People Also Searched

ER317L filler wire, ER317L TIG rod, AWS ER317L welding wire, UNS S31703 wire, ASTM A580 ER317L, stainless steel MIG wire, 317L stainless welding wire, 317L TIG filler, ER317L composition, ER317L mechanical properties, ER317L chemical analysis, 317L stainless steel electrode, 317L vs 316L, 317L stainless filler, corrosion resistant welding wire, molybdenum stainless wire, ER317L applications, ER317L welding parameters, GTAW ER317L, GMAW ER317L, 317L stainless steel wire rod, ER317L specifications, 317L filler metal, stainless TIG rod UNS S31703, ER317L wire manufacturer, 317L stainless steel MIG wire, high molybdenum stainless filler, ER317L corrosion resistance, stainless steel filler metal ASTM A580, ER317L welding data, 317L TIG welding rod, ER317L weld metal composition, ER317L marine welding wire, ER317L for chemical processing, AWS ER317L standard, stainless steel filler wire UNS S31703, 317L stainless steel welding alloy, ER317L filler applications.