

At Metals And Welding Specialities, we supply premium-grade **ER90S-B9 MIG & TIG Welding Wire**, engineered for superior performance in high-temperature and high-pressure environments. Classified under UNS K91560 and conforming to ASTM A5.28 ER90S-B9, this alloy is designed for joining 9Cr-1Mo-V steel and similar chromium-molybdenum materials used in power generation, petrochemical, and refinery applications. It offers outstanding creep strength, oxidation resistance, and stability, making it an excellent choice for critical service welds that demand durability and metallurgical integrity.

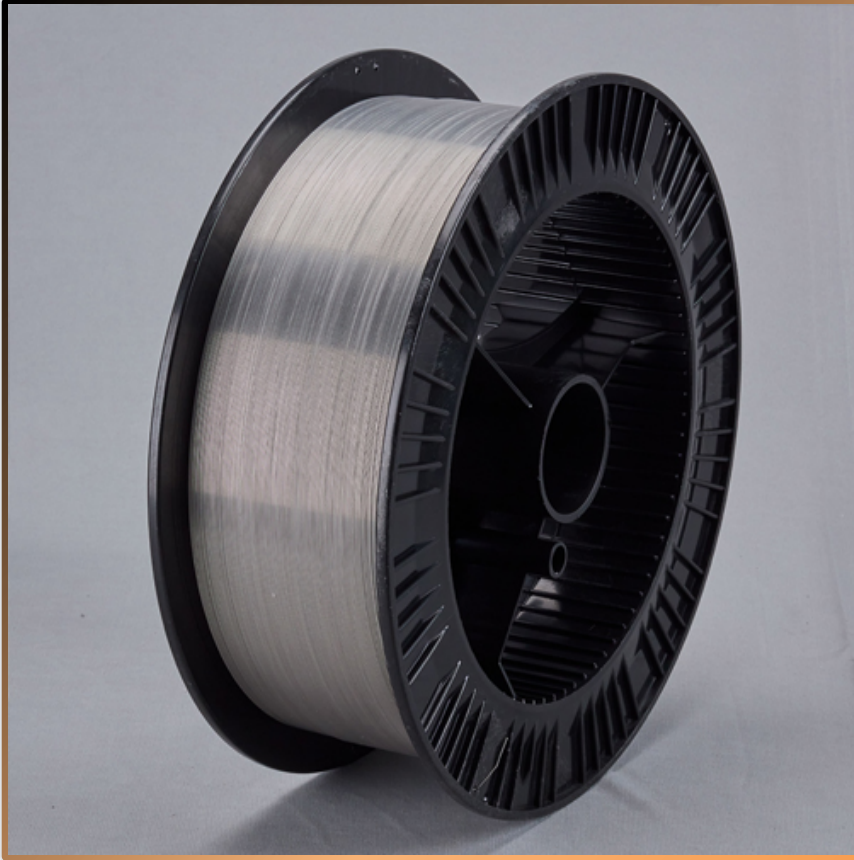


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The **ER90S-B9 filler metal** contains controlled additions of vanadium and niobium, which refine grain structure and enhance toughness at elevated temperatures. Its balanced composition ensures consistent arc stability and smooth bead appearance, whether used with **MIG (GMAW)** or **TIG (GTAW)** processes. When applied with proper heat treatment, the resulting weld metal exhibits excellent mechanical properties, maintaining strength and resistance to cracking under long-term exposure to service temperatures up to 650°C (1200°F).



ER90S-B9 MIG & TIG Welding Wire, ER90S-B9 MIG & TIG Welding Wire Manufacturers, ER90S-B9 MIG & TIG Welding Wire Suppliers, ER90S-B9 MIG & TIG Welding Wire Stockists, ER90S-B9 MIG & TIG Welding Wire Exporters

Welders and engineers trust this alloy for its proven reliability in constructing and repairing components such as boiler tubes, steam headers, heat exchangers, and piping systems that must withstand severe thermal cycling. The **AWS ER90S-B9 wire** also provides clean weld deposits with minimal spatter and optimal wetting characteristics, ensuring efficient workflow and reduced post-weld finishing time. Its controlled carbon and alloying elements deliver a fine balance between hardness and ductility, preventing embrittlement while preserving long-term creep performance.

At Metals And Welding Specialities, quality and precision define every spool we supply. Our **ER90S-B9 welding wire** meets or exceeds industry standards for weld consistency and mechanical strength. Each batch is rigorously tested for chemistry, cleanliness, and wire feedability, ensuring that fabricators receive a product capable of meeting the toughest ASME and ASTM project specifications. With precise diameter tolerances and excellent arc characteristics, this filler metal supports uniform weld penetration and high-quality fusion even in complex multi-pass joints.



ER90S-B9 MIG & TIG Welding Wire in India, ER90S-B9 MIG & TIG Welding Wire Manufacturers in India, ER90S-B9 MIG & TIG Welding Wire Suppliers in India, ER90S-B9 MIG & TIG Welding Wire Stockists in India, ER90S-B9 MIG & TIG Welding Wire Exporters in India

Whether you're performing fabrication, repair, or maintenance in refineries, chemical plants, or power stations, **Metals And Welding Specialities ER90S-B9 wire** delivers the metallurgical integrity your applications demand. Designed for critical high-temperature service environments, it remains the go-to filler metal for professionals seeking long-lasting, dependable performance under stress.

Specification ER90S-B9 MIG & TIG Welding Wire



Classification	AWS A5.28, ER90S-B9
Form	MIG spools, TIG cut lengths, Reels and Coils
Type Of Welding	Inert Gas Welding
Standard TIG straight lengths are available	36" (914 mm) or 39" (1000 mm) lengths. Other lengths available upon request.

AWS ER90S-B9 MIG & TIG Filler Metal Application & uses

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

Equivalent Grade Of ER90S-B9 MIG & TIG Welding Wire



Class	UNS	Oxford Alloys	BOHLER
ER90S-B9	S50482	Alloy 90S-B9	UNION ER90S-B9

ER90S-B9 MIG & TIG Welding Wire Chemical Composition



C	Mn	Si	S	Ni	Cr	Mo	V	Al	Cu	Nb	N
.09	.59	.20	.002	.63	8.93	.87	.21	.006	.05	.07	.045

ER90S-B9 MIG & TIG Welding Wire Parameters



PROCESS	DIA. OF WIRE	AMPERAGE	VOLTAGE	GAS/FLUX
	1/16"	50-120	7-13	Ar
GTAW (TIG)	3/32"	120-200	10-16	Ar
	1/8"	150-220	12-18	Ar
GMAW (MIG) SHORT ARC	.035" .045" 1/16"	90-160 120-200 -	14-20 16-20 -	CO2 CO2 -
GMAW (MIG) SPRAY	.035" .045" 1/16"	180-230 250-350 280-400	25-28 25-30 26-36	Ar / CO2 Ar / CO2 Ar / CO2
SUBMERGED	3/32"	250-340	26-34	MARATHON 543
ARC	1/8"	350-480	26-34	MARATHON 543
Travel Speed – 8-15 IPM		Stickout – 3/4" Avg.		

People Also Searched

ER90S-B9 welding wire, ER90S-B9 TIG rod, AWS ER90S-B9 MIG wire, UNS K91560 filler metal, ASTM A5.28 ER90S-B9 rod, ER90S-B9 9Cr-1Mo alloy, chrome-moly welding wire, P91 welding filler, creep-resistant welding rod, high-temperature welding consumable, ER90S-B9 GMAW wire, GTAW ER90S-B9 electrode, power plant welding alloy, refinery weld filler, 9Cr-1Mo-V TIG filler, ASTM A5.28 wire, chromium molybdenum steel filler, steam header welding wire, boiler tube weld wire, high creep strength alloy, ER90S-B9 UNS K91560 specification, AWS A5.28 ER90S-B9 data, ER90S-B9 composition, ER90S-B9 mechanical properties, ER90S-B9 welding applications, ER90S-B9 heat resistance, 9Cr steel welding rod, P91 equivalent filler wire, ASTM A213 T91 welding wire, ER90S-B9 post weld heat treatment, vanadium-modified weld filler, niobium-stabilized alloy wire, ER90S-B9 wire supplier, MIG TIG chrome-moly wire, Metals And Welding Specialities ER90S-B9, ER90S-B9 weld metallurgy.