At Metals And Welding Specialities, we supply precision-engineered **ER80S-B8 MIG & TIG Welding Wire** designed for superior performance in high-temperature and high-pressure environments. This solid wire, classified under **UNS K90941** and conforming to **ASTM A182 Grade F9**, is a trusted choice for fabricators and industries that demand exceptional weld integrity, oxidation resistance, and consistent mechanical strength. Manufactured with an optimized 9% chromium and 1% molybdenum composition, ER80S-B8 provides outstanding resistance to scaling and corrosion, making it ideal for service applications involving steam, pressure vessels, and petrochemical systems.

Table Of Content

The **ER80S-B8 welding wire** is designed for joining and overlay welding of Cr-Mo steels such as ASTM A182 F9, A336 F9, and A217 C9 castings. Its chemical balance delivers excellent creep strength and toughness, ensuring durability even under prolonged thermal exposure. Whether used for **MIG (GMAW)** or **TIG (GTAW)** processes, the wire exhibits stable arc characteristics, smooth feedability, and minimal spatter, leading to cleaner welds and reduced post-weld finishing. These performance attributes make it a reliable solution for power generation, refineries, and boiler manufacturing applications.

ER80S-B8 MIG & TIG Welding Wire, ER80S-B8 MIG & TIG Welding Wire Manufacturers, ER80S-B8 MIG & TIG Welding Wire Suppliers, ER80S-B8 MIG & TIG Welding Wire Stockists, ER80S-B8 MIG & TIG Welding Wire Exporters

Each batch of ER80S-B8 from Metals And Welding Specialities is produced to meet rigorous metallurgical standards. Its low carbon content enhances resistance to carbide precipitation, helping maintain weld metal toughness after post-weld heat treatment (PWHT). The filler metal also ensures strong metallurgical compatibility with base materials containing similar Cr-Mo alloys. Customers can rely on this product for consistent weld bead appearance, crack resistance, and excellent mechanical properties even in cyclic temperature environments.

The **ER80S-B8 filler metal** performs exceptionally well with shielding gases such as argon or argon/CO_2 mixtures for MIG welding, while pure argon is preferred for TIG applications. It is widely used in fabricating heat exchangers, superheater tubes, and steam pipes, where reliability and metallurgical stability are critical. As an industry leader, Metals And Welding Specialities ensures that every spool or cut length of ER80S-B8 wire is manufactured, tested, and packed under strict quality control to deliver optimal welding outcomes and long service life in demanding applications.

ER80S-B8 MIG & TIG Welding Wire in India, ER80S-B8 MIG & TIG Welding Wire Manufacturers in India, ER80S-B8 MIG & TIG Welding Wire Suppliers in India, ER80S-B8 MIG & TIG Welding Wire Stockists in India, ER80S-B8 MIG & TIG Welding Wire Exporters in India

If you're seeking a robust, dependable, and technically advanced **ER80S-B8 welding wire**, trust Metals And Welding Specialities to provide consistent quality that meets both international and project-specific specifications. We understand the precision and durability required in modern industrial welding, and our ER80S-B8 MIG & TIG wire stands as a testament to our commitment to metallurgical excellence.

Specification ER80S-B8 MIG & TIG Welding Wire

Classification	**AWS A5.28, ER80S-B8**
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 ER80S-B8 MIG & TIG Filler Metal Application & uses	Hardware tools Metallurgy Machinery Construction Shipbuilding Petroleum Chemical plant Power sector Gas Industry

Equivalent Grade Of ER80S-B8 MIG & TIG Welding Wire

Class	UNS	Oxford Alloys	BOHLER
ER80S-B8	S50480	Alloy 80S-B8	BOHLER CM 9-IG

ER80S-B8 MIG & TIG Welding Wire Chemical Composition

C	Mn	Si	Cr	Mo	S	P	Ni	Cu	OET
0.10 max	0.40- 0.70	0.50 max	8.00- 10.5	0.8-1.2	0.025 max	0.025 max	0.5 max	0.35 max	0.50 max

ER80S-B8 MIG & TIG Welding Wire Parameters

Typical Welding Parameters					
Diameter		**Process**	**Volt**	**Amps**	**Shielding Gas**
in	**(mm)**				
.035	0.9	GMAW	28-32	165-200	Spray Transfer 98% Argon + 2% Oxygen or 75% Argon + 25% CO2
.045	1.2	GMAW	30-34	180-220	
1/16	1.6	GMAW	30-34	230-260	
.035	0.9	GMAW	22-25	100-140	Short Circuiting Transfer 100% CO2 or 75% Argon + 25% CO2
.045	1.2	GMAW	23-26	120-150	
1/16	1.6	GMAW	23-26	160-200	
1/16	1.6	GTAW	12-15	100-125	100% Argon
3/32	2.4	GTAW	15-20	125-175	100% Argon

1/8	3.2	GTAW	15-20	175-250	100% Argon

People Also Searched

ER80S-B8 welding wire, ER80S-B8 filler metal, ER80S-B8 TIG wire, ER80S-B8 MIG wire, AWS A5.28 ER80S-B8, UNS K90941, ASTM A182 F9 welding rod, Cr-Mo steel filler metal, 9Cr-1Mo welding wire, ER80S-B8 data sheet, ER80S-B8 specification, ER80S-B8 mechanical properties, ER80S-B8 chemical composition, ER80S-B8 wire manufacturer, Metals And Welding Specialities ER80S-B8, ER80S-B8 vs ER90S-B9, TIG filler for F9 steel, MIG wire for Cr-Mo steel, High-temperature welding wire, Pressure vessel welding filler, ER80S-B8 for refinery piping, ER80S-B8 for boiler tubes, Steam piping welding wire, Heat exchanger filler wire, ER80S-B8 hardness, ER80S-B8 tensile strength, Welding consumables ER80S-B8, ER80S-B8 post-weld heat treatment, ER80S-B8 weld deposit properties, GTAW filler UNS K90941, ER80S-B8 GMAW wire, ER80S-B8 corrosion resistance, ER80S-B8 scaling resistance, R80S-B8 welding parameters, ER80S-B8 arc stability, Chromium-molybdenum welding wire, ER80S-B8 power plant application, ER80S-B8 gas shielding recommendations