

At Metals And Welding Specialities, we supply premium-quality **ER80S-B6** welding wire designed for superior performance in high-temperature and high-pressure environments. Engineered to meet the demanding requirements of modern fabrication and maintenance applications, this wire offers outstanding strength, oxidation resistance, and creep resistance when exposed to elevated service temperatures. Manufactured to the highest industry standards, our **ER80S-B6 MIG and TIG wire** ensures consistent weld quality, smooth arc characteristics, and minimal spatter during operation.



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The **ER80S-B6** filler wire corresponds to UNS K12079 and conforms to ASTM A337 Grade B6 specifications. It is primarily used for welding 5% chromium and 0.5% molybdenum steels commonly found in power generation, petrochemical, and refinery piping systems. These materials are chosen for their ability to withstand thermal fatigue and resist scaling, making **ER80S-B6** ideal for joining and overlaying components that face continuous exposure to steam, gas, or heat treatment cycles.



ER80S-B6 MIG & TIG Welding Wire, ER80S-B6 MIG & TIG Welding Wire Manufacturers, ER80S-B6 MIG & TIG Welding Wire Suppliers, ER80S-B6 MIG & TIG Welding Wire Stockists, ER80S-B6 MIG & TIG Welding Wire Exporters

Professionals rely on Metals And Welding Specialities for ER80S-B6 wire because of its consistent chemical composition, controlled carbon content, and clean surface finish. The filler metal provides excellent mechanical properties after post-weld heat treatment, maintaining tensile strength and toughness even at temperatures up to 600°C (1110°F). Whether used in **MIG (GMAW)** or **TIG (GTAW)** applications, the wire delivers a stable arc, easy wetting action, and uniform bead appearance, reducing the need for rework and improving productivity in fabrication shops.

Our **ER80S-B6** welding wire is widely used for critical applications such as boiler tubes, pressure vessels, heat exchangers, and furnace parts. It ensures strong metallurgical bonding with base metals containing chromium and molybdenum, maintaining weld integrity under thermal cycling. The filler's optimized silicon and manganese levels promote deoxidation and provide clean, sound weld deposits with excellent impact resistance.



ER80S-B6 MIG & TIG Welding Wire in India, ER80S-B6 MIG & TIG Welding Wire Manufacturers in India, ER80S-B6 MIG & TIG Welding Wire Suppliers in India, ER80S-B6 MIG & TIG Welding Wire Stockists in India, ER80S-B6 MIG & TIG Welding Wire Exporters in India

At Metals And Welding Specialities, every spool of **ER80S-B6** is precision-drawn, copper-coated, and vacuum-packed to preserve wire quality and ensure smooth feedability through automated or manual welding systems. Available in various diameters, our wire meets the performance requirements of both structural and repair welding across diverse industries. When strength, heat resistance, and reliability matter most, our ER80S-B6 welding wire is the trusted choice for professionals demanding unmatched results.

Specification ER80S-B6 MIG & TIG Welding Wire



Classification	AWS A5.28, ER80S-B2
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-B2 MIG & TIG Filler Metal Application & uses

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

Equivalent Grade Of ER80S-B6 MIG & TIG Welding Wire



Class	UNS	Oxford Alloys	BOHLER
ER80S-B2	K20900	Alloy 80S-B2	UNION ER80S-B2

ER80S-B6 MIG & TIG Welding Wire Chemical Composition



C	Mn	Si	Cr	Mo	P	S	Cu
.09	.55	.48	1.35	.55	.012	.006	.15

ER80S-B6 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 or 75 Ar / 25 CO2 CO2 or 75 Ar / 25 CO2
GMAW (MIG)	.035"	180-230	25-28	98 Ar / 2 O2
SPRAY	.045"	250-350	25-30	75 Ar / 25 CO2
TRANSFER	1/16"	280-400	26-36	75 Ar / 25 CO2
SUBMERGED	3/32"	250-400	28-32	UV420TTR
ARC	1/8"	400-600	30-34	UV420TTR

People Also Searched

ER80S-B6 filler wire, AWS A5.28 ER80S-B6, ER80S-B6 TIG rod, ER80S-B6 MIG wire, UNS K12079, ASTM A337 B6, 5Cr-0.5Mo welding wire, chromium molybdenum filler metal, ER80S-B6 mechanical properties, ER80S-B6 applications, ER80S-B6 welding procedure, ER80S-B6 tensile strength, ER80S-B6 composition, ER80S-B6 equivalent, ER80S-B6 welding rod, ER80S-B6 post-weld heat treatment, ER80S-B6 vs ER90S-B9, ER80S-B6 data sheet, ER80S-B6 wire specifications, ER80S-B6 GMAW filler, ER80S-B6 GTAW filler, ER80S-B6 chemical analysis, ER80S-B6 creep resistance, ER80S-B6 high-temp alloy, ER80S-B6 power plant welding, ER80S-B6 refinery welding, ER80S-B6 boiler tube welding, ER80S-B6 heat exchanger repair, ER80S-B6 furnace component welding, ER80S-B6 oxidation resistance, ER80S-B6 hardness, ER80S-B6 supplier India, ER80S-B6 manufacturer, ER80S-B6 export quality, ER80S-B6 welding standards, ER80S-B6 industrial wire, AWS ER80S-B6 chromium molybdenum, ER80S-B6 weld metal properties.