

The **ERNiFe-CI MIG & TIG Welding Wire** filler wire, manufactured and supplied by **Metals And Welding Specialities**, is a premium nickel-iron alloy welding product designed for high-performance joining and overlay applications. Classified under **UNS N07041** and conforming to **ASTM Grade ERNiFe-CI**, this alloy delivers excellent strength, corrosion resistance, and thermal stability in demanding environments. Metals And Welding Specialities has engineered this product to meet the critical needs of industries that rely on durable and reliable weld joints under mechanical and chemical stress.



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The **ERNiFe-CI** filler metal is primarily used for welding cast irons, nickel-iron alloys, and dissimilar combinations of ferrous and nickel-based metals. Its superior metallurgical properties make it particularly effective for joining gray iron, ductile iron, and cast steels. With outstanding resistance to cracking, porosity, and thermal fatigue, this wire ensures consistent weld quality in both **MIG** and **TIG** processes. The balanced composition of nickel and iron provides exceptional tensile strength and machinability after welding, allowing post-weld finishing operations to be carried out with ease.



ERNiFe-CI MIG & TIG Welding Wire, ERNiFe-CI MIG & TIG Welding Wire Manufacturers, ERNiFe-CI MIG & TIG Welding Wire Suppliers, ERNiFe-CI MIG & TIG Welding Wire Stockists, ERNiFe-CI MIG & TIG Welding Wire Exporters

This **AWS Class ERNiFe-CI** wire is widely used in maintenance and repair operations, especially where cast iron components are exposed to heat, friction, or corrosive agents. Typical applications include cylinder heads, pump housings, machine bases, exhaust manifolds, and gear housings. It delivers reliable performance in both as-welded and stress-relieved conditions, maintaining strong mechanical integrity even at elevated temperatures. Its ability to produce dense and defect-free weld deposits makes it a preferred choice for precision manufacturing and industrial repair shops.

The **UNS N07041** alloy used in this filler wire is known for its excellent resistance to oxidation and scaling at high temperatures, making it suitable for applications in automotive, petrochemical, marine, and power generation sectors. The chemical balance of the alloy minimizes shrinkage and distortion during solidification, providing smooth bead appearance and stable arc characteristics. Whether used with direct current electrode positive (DCEP) in MIG welding or pure argon shielding gas in TIG welding, this wire ensures smooth feedability and consistent results.



ERNiFe-CI MIG & TIG Welding Wire in India, ERNiFe-CI MIG & TIG Welding Wire Manufacturers in India, ERNiFe-CI MIG & TIG Welding Wire Suppliers in India, ERNiFe-CI MIG & TIG Welding Wire Stockists in India, ERNiFe-CI MIG & TIG Welding Wire Exporters in India

Metals And Welding Specialities ensures that every batch of **ERNiFe-CI MIG & TIG** wire undergoes strict quality control in compliance with international welding standards. The company's expertise in producing advanced filler metals guarantees uniform composition, low impurities, and excellent corrosion resistance. As a trusted name in welding consumables, Metals And Welding Specialities continues to deliver products that enhance productivity, reduce downtime, and extend component life across multiple industries.

When precision, durability, and reliability matter, the **AWS Class ERNiFe-CI** wire from Metals And Welding Specialities stands as the professional's choice for joining and rebuilding cast iron components.

### Specification ERNiFe-CI MIG & TIG Welding Wire



Classification	ERNIFE-CI
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 ERNiFe-CI MIG & TIG Metal Application & uses

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

## ERNiFe-CI MIG & TIG Welding Wire Chemical Composition



Element	Composition (%)
C	0.1 max
Mn	0.5 – 1.5
Fe	Remainder
S	0.02 max
Si	0.20 max
P	0.02 max
Ni	55.0 min
Other	1.0 max

## ERNiFe-CI MIG & TIG Welding Wire Parameters



Process	Diameter of Wire	Voltage (V)	Amperage (A)	Gas
Tig	.035 inches x 36	12 -15	60 -90	100% Argon
	.045 inches x 36	13 -16	80 - 110	100% Argon
	1/16 inches x 36	14 - 18	90 - 130	100% Argon
	3/32 inches x 36	15 – 20	120 -175	100% Argon
	1/8 inches x 36	12 -15	150 - 220	100% Argon
Mig	.035 inches	26 – 29	150 – 190	75% Argon + 25% Helium
	.045 inches	28 – 32	180 – 220	75% Argon + 25% Helium
	1/16 inches	29 – 33	200 - 250	75% Argon + 25% Helium

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ERNiFe-CI filler wire, AWS ERNiFe-CI, UNS N07041, ERNiFe-CI MIG wire, ERNiFe-CI TIG rod, nickel-iron alloy welding wire, cast iron welding wire, nickel alloy filler metal, ERNiFe-CI chemical composition, Metals And Welding Specialities ERNiFe-CI, ASTM ERNiFe-CI standard, ERNiFe-CI properties, welding cast iron with ERNiFe-CI, ERNiFe-CI mechanical properties, nickel-iron filler wire suppliers, ERNiFe-CI equivalent, UNS N07041 material, ERNiFe-CI datasheet, nickel alloy electrodes, ERNiFe-CI wire price, ERNiFe-CI welding technique, MIG welding nickel iron alloy, TIG welding cast iron, AWS ERNiFe-CI specifications, nickel-iron repair welding, ERNiFe-CI applications, ERNiFe-CI tensile strength, ERNiFe-CI hardness, Metals And Welding Specialities nickel alloys, ERNiFe-CI corrosion resistance, ERNiFe-CI arc stability, ERNiFe-CI weldability, ERNiFe-CI vs ENiFe-CI, ERNiFe-CI heat resistance, ERNiFe-CI UNS number, ERNiFe-CI ASTM grade, ERNiFe-CI welding parameters.