

**Metals And Welding Specialities** offers premium-quality **AWS Class ERNi-CI MIG & TIG** welding wires, engineered for precision and durability in demanding industrial environments. Designed with superior metallurgical composition, this nickel-based filler metal is specifically used for joining and overlaying cast iron components. The **ERNi-CI** wire exhibits outstanding crack resistance and provides a tough, ductile weld deposit that minimizes post-weld stresses. It ensures excellent machinability and is ideal for both repair and fabrication applications involving cast irons and dissimilar metals.



## Table Of Content

- [What is ERNi-CI MIG & TIG Welding Wire?](#)
- [Specification of ERNi-CI MIG & TIG Welding Wire](#)
- [Equivalent Grade Of ERNi-CI MIG & TIG Welding Wire](#)
- [Chemical Composition of ERNi-CI MIG & TIG Welding Wire](#)
- [ERNi-CI MIG & TIG Welding Wire Parameters](#)
- [People Searched for ERNi-CI MIG & TIG Welding Wire](#)
- [Supply Cities of ERNi-CI MIG & TIG Welding Wire](#)
- [Export Countries of ERNi-CI MIG & TIG Welding Wire](#)

Manufactured under stringent quality standards, **Metals And Welding Specialities ERNi-CI** is classified as per **AWS A5.14** specification and carries the **UNS N08121** designation. This classification guarantees consistent mechanical properties and stable arc performance across different welding parameters. The wire's chemical balance of nickel and iron delivers exceptional strength, thermal stability, and corrosion resistance. Its smooth arc transfer and minimal spatter make it highly efficient for **MIG (GMAW)** and **TIG (GTAW)** processes, ensuring neat and uniform welds even on difficult-to-weld base materials.



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

In applications where machinability and strength are equally critical, **ERNi-CI** performs exceptionally well. It is widely used for welding various grades of cast irons such as gray iron, ductile iron, and malleable iron. The filler metal also serves effectively for joining cast irons to steels and stainless steels, creating sound joints without compromising metallurgical integrity. Its high nickel content provides excellent resistance to thermal cracking, oxidation, and corrosion, even in fluctuating temperature environments. Industries such as automotive, foundry, repair, shipbuilding, and machinery maintenance rely on **Metals And Welding Specialities' ERNi-CI** filler wire for restoring worn or damaged parts. From repairing engine blocks, gear housings, and cylinder heads to resurfacing pump components, this wire ensures long-lasting, high-quality welds. It also minimizes the need for preheating and post-weld heat treatment, making it a practical choice for on-site repairs and maintenance operations.



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

Every batch of **Metals And Welding Specialities ERNi-CI MIG & TIG** wire undergoes rigorous testing to ensure it meets international welding standards. The filler wire offers superior wetting action, stable arc characteristics, and easy slag removal, making it suitable for both automated and manual welding setups. With our commitment to precision engineering and product reliability, Metals And Welding Specialities continues to be a trusted name among fabricators and maintenance professionals worldwide.

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



<b>Classification</b>	<b>AWS A5.14, ERNi CI</b>
<b>Form</b>	MIG spools, TIG cut lengths, Reels and Coils
<b>Type Of Welding</b>	Inert Gas Welding
<b>Standard TIG straight lengths are available</b>	36" (914 mm) or 39" (1000 mm) lengths. Other lengths available upon request.
<b>AWS ERNi CI MIG &amp; TIG Metal Application &amp; uses</b>	Hardware tools Metallurgy Machinery Construction Shipbuilding Petroleum Chemical plant Power sector Gas Industry

## Equivalent Grade Of ERNi-CI MIG & TIG Welding Wire



Class	UNS	Oxford Alloys	Special Metals	SANDVIK
ERNi CI	N08065	Alloy 825	INCOLOY 65	EXATON NI41 CU

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



Element	Composition (%)
C	0.1 max
Mn	0.30 max
Fe	0.20 max
Si	0.10 max
Cu	0.20 max
Ni	99.2 min

## ERNi-CI MIG & TIG Welding Wire Parameters



Recommended Welding Parameters for TIG and MIG Welding of Nickel Alloys				
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

## People Also Searched

ERNi-CI welding wire, ERNi-CI TIG filler, ERNi-CI MIG wire, UNS N08121 filler rod, AWS A5.14 ERNi-CI, nickel-based cast iron wire, nickel alloy filler metal, nickel iron welding wire, cast iron repair wire, dissimilar metal welding rod, nickel TIG wire for cast iron, MIG wire for cast iron, ERNi-CI welding applications, Metals And Welding Specialities ERNi-CI wire, nickel cast iron filler, nickel

welding consumables, AWS A5.14 nickel wire, ERNi-CI electrode equivalent, welding cast iron to steel, ERNi-CI chemical composition, high nickel filler metal, nickel alloy wire supplier, nickel cast iron TIG rod, corrosion-resistant nickel wire, machinable weld filler, cast iron overlay welding, ERNi-CI rod for maintenance, nickel wire UNS N08121, AWS ERNi-CI standard, MIG/TIG welding consumables, ERNi-CI properties, nickel iron alloy wire, cast iron joining filler, ERNi-CI hardness, weld repair materials, ERNi-CI specification, TIG rod UNS N08121, nickel-based filler for cast iron.