

Metals And Welding Specialities is a trusted supplier of **ENiFe-CI Welding Electrodes**, designed to meet high-performance welding needs for critical applications. These electrodes conform to **ASTM A5.11 ENiFe-CI** standards and are classified under **UNS W86112**. Known for their exceptional weldability and strong metallurgical properties, these electrodes are widely used in industries where durability, reliability, and precision are paramount.



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The **ENiFe-CI Welding Electrodes** are nickel-iron-based consumables that provide outstanding results in welding cast iron, especially where strength and crack resistance are vital. The special composition of nickel and iron allows these electrodes to create a strong, tough, and machinable weld deposit. This makes them highly effective for repairing broken or worn cast iron components, which would otherwise be difficult to weld with conventional electrodes.

ENiFe-CI Welding Electrodes, ENiFe-CI Welding Electrodes Manufacturers, ENiFe-CI Welding Electrodes Suppliers, ENiFe-CI Welding Electrodes Stockists,



## ENiFe-CI Welding Electrodes Exporters

One of the most significant advantages of **ASTM A5.11 ENiFe-CI electrodes** is their ability to minimize the risk of cracking during welding. When used on gray cast iron, nodular iron, or malleable iron, they provide excellent fusion and a smooth finish. These electrodes also demonstrate superior mechanical strength and resistance to thermal stress, making them ideal for heavy-duty applications in industries such as automotive, construction, shipbuilding, and foundries.

The **UNS W86112 electrodes** are also widely preferred for joining dissimilar metals. They offer reliable welding of cast iron to carbon steel, low alloy steels, and even stainless steel. This versatility makes them a cost-effective and practical solution for industries where multiple metal combinations are in use. Additionally, the weld deposit created by ENiFe-CI electrodes is readily machinable, allowing for post-weld processing and finishing without complications.



ENiFe-CI Welding Electrodes in India, ENiFe-CI Welding Electrodes Manufacturers in India, ENiFe-CI Welding Electrodes Suppliers in India, ENiFe-CI Welding Electrodes Stockists in India, ENiFe-CI Welding Electrodes Exporters in India

Metals And Welding Specialities ensures that every **AWS Class ENiFe-CI Coated Electrode** we supply delivers consistent performance with stable arc characteristics, minimal spatter, and easy slag removal. These qualities not only improve the efficiency of the welding process but also enhance the quality of the finished welds. With their excellent corrosion resistance, these electrodes can withstand challenging service environments, adding to their long-term value.

Applications of **ENiFe-CI electrodes** include the repair of engine blocks, machine bases, pumps, gear housings, and other heavy castings. They are also used in marine industries for ship machinery repair, as well as in manufacturing plants where cast iron equipment undergoes frequent wear and tear. Their universal standard quality ensures that welders can trust them for both repair and fabrication work.

Metals And Welding Specialities is committed to providing top-quality **ASTM A5.11 ENiFe-CI** electrodes that meet international welding standards. Our expertise, combined with premium materials, ensures that customers receive only the best welding consumables to support their critical projects.

### Specification ENiFe-CI Welding Electrodes



<b>Classification</b>	<b>AWS A5.11, A5.1, ENiFe-CI</b>
<b>Form</b>	Welding Electrode, Welding Rods
<b>Type Of Current</b>	Direct Current Electrode Positive (DCEP)
<b>Diameters</b>	3/32", 1/8", 5/32", 3/16" or 2.5mm, Ø 3.2mm, Ø 4.0mm, Ø 5.0mm
<b>Size</b>	2.0mm ∞ 5.0mm
<b>AC/DC+</b>	50-80, 80-110, 100-135, 140-180
<b>Welding Positions</b>	All positions 5/32" & 3/16" recommended for use in flat & horizontal positions only (F, V, OH, H)

## ENiFe-CI Coated Electrodes Application & uses

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

## Equivalent Grade Of ENiFe-CI Welding Electrodes



Class	UNS	Oxford Alloys	Special Metals	BOHLER	UTP
ENiFe-CI	W82002	Alloy 55	NI ROD 55	BOHLER THERMANIT NIMO C276	UTP 83 FN

## ENiFe-CI Welding Electrodes Chemical Composition



C	Mn	Si	S	Fe	Ni+ incidental Cobalt	Cu + incidental Silver	AL	Other
2.0	2.5	4.0	0.03	Remainder	45-60	2.5	1.0	1.0

## ENiFe-CI Welding Electrodes Parameters



Typical Welding Parameters				
Diameter		Process	Amps	Shielding Gas
in	(mm)			
3/32"	2.4	GMAW	70-90	98% Argon/2% Oxygen
1/8"	3.2	GMAW	100-135	98% Argon/2% Oxygen
5/32"	4	GMAW	130-180	98% Argon/2% Oxygen
3/16"	4.8	GMAW	190-220	98% Argon/2% Oxygen

## People Also Searched

ENiFe-CI electrode, AWS ENiFe-CI, ASTM A5.11 ENiFe-CI, UNS W86112 electrode, Nickel Iron coated electrodes, Cast iron welding electrode, Machinable welding electrodes, ENiFe-CI welding rod, AWS Class ENiFe-CI UNS W86112, Nickel iron electrode for cast iron, ENiFe-CI arc welding electrode, UNS W86112 welding electrode, Dissimilar metal welding electrode, Nickel iron consumables,

AWS A5.11 ENiFe-CI electrode, ENiFe-CI coated stick electrode, Welding electrode UNS W86112, Nickel alloy electrodes for cast iron, ENiFe-CI repair electrodes, Cast iron repair welding rod, AWS ENiFe-CI welding consumables, Machinable weld deposit electrode, High strength welding electrode ENiFe-CI, Nickel iron arc welding rods, ENiFe-CI electrode suppliers, ASTM A5.11 ENiFe-CI standard electrodes, UNS W86112 AWS ENiFe-CI, ENiFe-CI low spatter electrodes, AWS Class ENiFe-CI rods, ENiFe-CI electrode Metals And Welding Specialities, Nickel iron welding rod UNS W86112, Electrodes for gray cast iron welding, Nickel iron filler rod ASTM A5.11, AWS A5.11 UNS W86112 electrodes, ENiFe-CI electrode machinability, Cast iron to steel welding electrode, Welding rods ENiFe-CI UNS W86112.