

The **ERNiCrMo-8 MIG & TIG Welding Wire** filler wire offered by **Metals And Welding Specialities** is a high-performance nickel-chromium-molybdenum alloy designed for critical welding applications that demand superior corrosion resistance and mechanical strength. This alloy, also known under the **UNS N06625** designation and conforming to **ASTM A494 Grade CW6MC**, is widely recognized for its exceptional resistance to pitting, crevice corrosion, and stress corrosion cracking in both oxidizing and reducing environments. Its universal standard name, **Nickel Alloy 625**, highlights its reliability across industries where durability under extreme conditions is non-negotiable.



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Manufactured with precision at Metals And Welding Specialities' advanced facilities, the ERNiCrMo-8 welding wire ensures consistent weld quality and stable arc characteristics in both **MIG** (Metal Inert Gas) and **TIG** (Tungsten Inert Gas) processes. Its outstanding metallurgical stability makes it suitable for joining **Nickel Alloy 625** and other nickel-based alloys, as well as dissimilar materials such as stainless steels and low alloy steels. This alloy is engineered to retain strength at high temperatures

while offering excellent oxidation resistance up to 1000°C, making it an ideal choice for aerospace, marine, chemical processing, and power generation applications.



ERNiCrMo-8 MIG & TIG Welding Wire, ERNiCrMo-8 MIG & TIG Welding Wire Manufacturers, ERNiCrMo-8 MIG & TIG Welding Wire Suppliers, ERNiCrMo-8 MIG & TIG Welding Wire Stockists, ERNiCrMo-8 MIG & TIG Welding Wire Exporters

The **ERNiCrMo-8** wire's chemical composition features balanced levels of nickel, chromium, molybdenum, and niobium, which together deliver remarkable weld integrity and corrosion protection. Its low carbon content helps prevent carbide precipitation during welding, ensuring a clean, defect-free weld deposit. Whether used for overlaying or joining, it maintains toughness and ductility even under severe thermal cycling and mechanical stress. This makes it a preferred filler metal for welding components such as heat exchangers, turbine housings, pressure vessels, and piping systems exposed to aggressive environments like seawater or acidic media.

Industries such as automotive, foundry, repair, shipbuilding, and machinery maintenance rely on **Metals And Welding Specialities'** **ERNiCrMo-8** 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.



ERNiCrMo-8 MIG & TIG Welding Wire in India, ERNiCrMo-8 MIG & TIG Welding Wire Manufacturers in India, ERNiCrMo-8 MIG & TIG Welding Wire Suppliers in India, ERNiCrMo-8 MIG & TIG Welding Wire Stockists in India, ERNiCrMo-8 MIG & TIG Welding Wire Exporters in India

Metals And Welding Specialities is a trusted manufacturer and supplier of premium welding consumables that meet global standards. The **ERNiCrMo-8 MIG & TIG Welding Wire** wire is produced under strict quality controls and tested to ensure uniform feedability, minimal spatter, and a smooth bead appearance. It complies with the highest international specifications, offering reliable performance in demanding fabrication and maintenance operations. For industries that require durability, precision, and corrosion resistance, Metals And Welding Specialities delivers a welding solution that stands the test of time.

### Specification ERNiCrMo-8 MIG & TIG Welding Wire



<b>Classification</b>	<b>ERNiCrMo-8</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.

## AWS ERNiCrMo-8 MIG & TIG Metal Application & uses

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

## ERNiCrMo-8 MIG & TIG Welding Wire Chemical Composition



Element	Composition (%)
C	0.03 max
Mn	1.0 max
Fe	Remainder
P	0.03 max
S	0.03 max
Si	1.0 max
Cu	0.7 – 1.2
Ni	47.0 – 52.0
Ti	0.7 – 1.5
Cr	23.0 – 26.0
Mo	5.0 – 7.0
Other	0.50 max

## ERNiCrMo-8 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

ERNiCrMo-8 welding wire,ERNiCrMo-8, UNS N06625 filler wire, Nickel Alloy 625 welding rod, ASTM A494 CW6MC, ERNiCrMo-8 MIG wire, ERNiCrMo-8 TIG wire, Nickel 625 filler metal, Alloy 625 welding consumables, NiCrMo-8 welding alloy, Nickel-Chromium-Molybdenum wire, Inconel 625 welding wire, ERNiCrMo-8 composition, ERNiCrMo-8 mechanical properties, ERNiCrMo-8 chemical composition, Metals And Welding Specialities Nickel Alloy wire, Heat-resistant welding filler, Corrosion-resistant nickel alloy wire, Dissimilar metal welding filler, High-temperature alloy filler metal, Alloy 625 UNS N06625 wire, NiCrMo-8 TIG filler, Nickel 625 MIG welding, Marine-grade nickel alloy filler, Chemical process industry welding wire, Power plant alloy filler metal, Aerospace-grade welding wire, Nickel alloy welding consumables, Nickel-based superalloy filler wire, Nickel 625 welding applications, High-strength nickel filler metal, AWS ERNiCrMo-8 specification, Alloy 625 TIG rod, Alloy 625 MIG wire, UNS N06625 nickel wire, NiCrMo alloy welding consumable, Industrial nickel filler metal, Metals And Welding Specialities ERNiCrMo-8 wire