At Metals And Welding Specialities, we manufacture and supply high-quality **ERNiFeCr-1** MIG and TIG welding wires designed for superior performance in demanding industrial applications. This filler metal, also known by its **UNS N06002** designation and **ASTM Grade Alloy 617**, is engineered for joining and overlaying nickel-chromium-iron-based alloys that operate under extreme temperatures and corrosive environments. Our **ERNiFeCr-1 welding wire** ensures excellent metallurgical stability, high tensile strength, and outstanding oxidation resistance, making it a trusted choice for aerospace, petrochemical, and power generation industries.

Table Of Content

The **ERNiFeCr-1** filler metal offers a balanced composition of nickel, chromium, iron, and cobalt, delivering excellent weldability with stable arc characteristics. When used for **MIG (GMAW)** or **TIG (GTAW)** welding processes, it produces weld deposits that resist scaling and carburization even at elevated temperatures. This makes it ideal for fabricating and repairing components such as furnace hardware, gas turbine parts, heat exchangers, and combustion liners. Its superior creep strength and corrosion resistance under both oxidizing and reducing atmospheres make it highly reliable for high-stress applications.

ERNiFeCr-1 MIG & TIG Welding Wire, ERNiFeCr-1 MIG & TIG Welding Wire Manufacturers, ERNiFeCr-1 MIG & TIG Welding Wire Suppliers, ERNiFeCr-1 MIG & TIG Welding Wire Stockists, ERNiFeCr-1 MIG & TIG Welding Wire Exporters

At Metals And Welding Specialities, we produce **ERNiFeCr-1 MIG & TIG wires** with precise dimensional tolerances and consistent chemical composition, ensuring smooth feeding and minimal spatter. Our products are tested according to strict international standards to guarantee consistent mechanical performance and weld integrity. The filler metal's compatibility with nickel-based alloys such as Alloy 617, Inconel 601, and other similar grades enables welders to achieve defect-free joints with excellent metallurgical bonding and ductility.

The universal standard name for this alloy is **Nickel-Chromium-Iron Alloy 617**, known for its exceptional strength, oxidation resistance, and ability to perform under prolonged thermal exposure. The combination of molybdenum and cobalt enhances its toughness and stress rupture properties, making it suitable for long-term use in high-temperature service conditions. Whether you're performing overlay cladding, joining dissimilar metals, or manufacturing components for chemical processing equipment, **Metals And Welding Specialities' ERNiFeCr-1 filler wire** delivers unmatched reliability and consistent results.

ERNiFeCr-1 MIG & TIG Welding Wire in India, ERNiFeCr-1 MIG & TIG Welding Wire Manufacturers in India, ERNiFeCr-1 MIG & TIG Welding Wire Suppliers in India, ERNiFeCr-1 MIG & TIG Welding Wire Stockists in India, ERNiFeCr-1 MIG & TIG Welding Wire Exporters in India

Choosing **Metals And Welding Specialities** means choosing durability, precision, and quality. Our ERNiFeCr-1 welding wires are available in a wide range of diameters to suit various welding procedures. With years of expertise in alloy manufacturing and a commitment to innovation, we ensure that every spool of filler metal we produce meets the highest standards of quality and performance.

Specification ERNiFeCr-1 MIG & TIG Welding Wire

Classification	**AWS A5.14, ERNiFeCr-1**
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 ERNiFeCr-1 MIG & TIG Metal Application & uses	Hardware tools Metallurgy Machinery Construction Shipbuilding Petroleum Chemical plant Power sector Gas Industry

Equivalent Grade Of ERNiFeCr-1 MIG & TIG Welding Wire

Class	UNS	Oxford Alloys	Special Metals	SANDVIK
ERNiFeCr-1	N08065	Alloy 825	INCOLOY 65	EXATON NI41 CU

ERNiFeCr-1 MIG & TIG Welding Wire Chemical Composition

C	Mn	Si	Cr	S	P	Ni	Fe	Cu	Al	Mo	Ti
≤0.05	≤1	≤0.5	19.5-23.5	≤0.03	≤0.03	38-46	≥22	1.5-3.0	≤0.2	2.5-3.5	0.6-1.2

ERNiFeCr-1 MIG & TIG Welding Wire Parameters

Diameter		Process	Volt	Amps	Shielding Gas
In	mm				
0.035	0.9	GMAW	26-29	150-190	Spray Transfer 100% Argon
0.045	1.2	GMAW	28-32	180-220	
1/16	1.6	GMAW	29-33	200-250	
1/16	1.6	GTAW	14-18	90-130	100% Argon
3/32	2.4	GTAW	15-20	120-175	100% Argon
1/8	3.2	GTAW	15-20	150-220	100% Argon

People Also Searched

ERNiFeCr-1 filler wire, AWS A5.14 ERNiFeCr-1, Nickel Alloy 617 welding wire, UNS N06002 wire, Alloy 617 TIG wire, Alloy 617 MIG wire, ERNiFeCr-1 rod, Nickel-Chromium-Iron alloy wire, Inconel 617 equivalent, Alloy 617 welding electrode, Alloy 617 UNS N06617, ERNiFeCr-1 chemical composition, Alloy 617 filler metal, Nickel base welding alloy, ERNiFeCr-1 data sheet, Alloy 617 mechanical

properties, High-temperature welding wire, Nickel alloy TIG filler, MIG welding filler Alloy 617, Nickel-chromium filler wire, Heat-resistant welding wire, ERNiFeCr-1 welding applications, Alloy 617 suppliers, ERNiFeCr-1 properties, Nickel alloy wire manufacturers, AWS A5.14 standard, UNS N06002 chemical composition, Nickel welding rod suppliers, Alloy 617 corrosion resistance, ERNiFeCr-1 strength, Metals And Welding Specialities welding alloys, Nickel alloy filler metals, TIG welding nickel alloys, MIG welding nickel alloys, Nickel alloy repair wire, ERNiFeCr-1 oxidation resistance, Alloy 617 temperature range, UNS N06002 equivalent, ERNiFeCr-1 manufacturer India.