

The **ER630 MIG & TIG Welding Wire** welding wire from **Metals And Welding Specialities** is a premium-grade stainless steel filler metal engineered for high-strength, corrosion-resistant welding applications. Classified under **UNS S17400** and conforming to **ASTM A693 Grade 630**, this alloy is also known by its universal standard name **17-4 PH Stainless Steel**. It is widely used in environments where superior mechanical properties, excellent toughness, and resistance to stress corrosion cracking are essential.



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This **ER630 welding wire** delivers outstanding performance in both **MIG** (Gas Metal Arc Welding) and **TIG** (Gas Tungsten Arc Welding) processes. Designed for welding 17-4 PH type stainless steels, it produces strong, crack-free joints that maintain the base metal's heat-treatable characteristics. The deposited weld metal responds well to various post-weld heat treatments, offering exceptional hardness and tensile strength. This makes it a trusted choice for fabricating components that must endure severe operating conditions.



ER630 MIG & TIG Welding Wire, ER630 MIG & TIG Welding Wire Manufacturers, ER630 MIG & TIG Welding Wire Suppliers, ER630 MIG & TIG Welding Wire Stockists, ER630 MIG & TIG Welding Wire Exporters

At **Metals And Welding Specialities**, we supply **ER630** in precisely formulated wire forms to ensure consistent feeding, clean arc stability, and minimal spatter. Its excellent arc control and low oxidation rate enable smooth bead appearance and reduced post-weld finishing time. Whether you're working on critical aerospace components, high-performance shafts, turbine blades, or petrochemical processing parts, this filler metal ensures reliable metallurgical integrity and optimal corrosion resistance. The **AWS ER630 MIG & TIG wire** exhibits excellent weldability with controlled ferrite levels, maintaining strength even under high-temperature exposure. It's compatible with both argon and argon/oxygen shielding gas mixtures, ensuring stable welding conditions and clean weld pools. After proper heat treatment (typically at 480°C to 620°C), the welds achieve mechanical properties comparable to the parent metal, including a tensile strength of approximately 1100 MPa and high yield strength with good impact toughness.



ER630 MIG & TIG Welding Wire in India, ER630 MIG & TIG Welding Wire Manufacturers in India, ER630 MIG & TIG Welding Wire Suppliers in India, ER630 MIG & TIG Welding Wire Stockists in India, ER630 MIG & TIG Welding Wire Exporters in India

Applications for this alloy extend across industries such as marine engineering, oil and gas, chemical processing, defense, and heavy machinery manufacturing. Each spool or cut length of **ER630 wire** from Metals And Welding Specialities is carefully inspected and packaged to maintain product quality, ensuring that welders receive only the highest standard of filler materials. Our commitment to quality ensures that every batch of **ER630 stainless steel welding wire** conforms to the latest **AWS A5.9** specifications and international manufacturing standards. When performance, durability, and precision matter most, Metals And Welding Specialities provides the filler metal you can trust.

Specification ER630 MIG & TIG Welding Wire



Classification	AWS A5.9, ER630
Form	MIG spools, TIG cut lengths, Reels and Coils
Type Of Welding	Inert Gas Welding
Current	MIG-DCEP / TIG-DCEN
Diameters	.023", .030", .035", .045", 1/16", 3/32", 1/8"
Standard TIG straight lengths are available	36" (914 mm) or 39" (1000 mm) lengths. Other lengths available upon request.

AWS ER630 MIG & TIG Filler Metal Application & uses

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

Equivalent Grade Of ER630 MIG & TIG Welding Wire



Class	UNS	Oxford Alloys
ER630	S17480	Alloy 630

ER630 MIG & TIG Welding Wire Chemical Composition



C	Cr	Ni	Mo	Mn	Si	P	S	Cu	Element	Amount
0.05	16.00-16.75	4.5-5.0	0.75	0.25-0.75	0.75	0.03	0.03	3.25-4.00	Nb	0.15-0.30

ER630 MIG & TIG Welding Wire Parameters



Diameter		Process	Volt	Amps	GAS
in	(mm)				
.035	(0.9)	GMAW	26-29	160-210	98% Argon/2% Oxygen or 97% Argon/3% Oxygen
.045	(1.14)	GMAW	28-32	180-250	98% Argon/2% Oxygen or 97% Argon/3% Oxygen
1/16"	(1.6)	GMAW	29-33	200-280	98% Argon/2% Oxygen or 97% Argon/3% Oxygen

People Also Searched

ER630 welding wire, AWS ER630 filler rod, UNS S17400, ASTM A693 Grade 630, 17-4 PH stainless steel, ER630 TIG wire, ER630 MIG wire, 17-4PH filler metal, stainless steel welding rod, precipitation hardening stainless steel wire, ER630 stainless filler, 17-4PH UNS S17400, 17-4PH welding wire, AWS A5.9 ER630, 630 stainless wire, stainless MIG wire, high strength welding wire, corrosion resistant filler metal, aerospace welding materials, turbine welding alloy, oil and gas welding wire, marine grade filler, 17-4PH shaft welding, heat-treatable stainless wire, PH stainless steel MIG, PH stainless steel TIG, ER630 specification, ASTM A693 wire, stainless wire supplier, precision welding wire, 17-4 PH rod, UNS S17400 rod, ER630 data sheet, stainless filler metal ER630, high-performance welding alloy, stainless steel wire manufacturer, Metals And Welding Specialities ER630.

