ERNiCrMo-10

ERNiFeCr-2 refers to Inconel 718, UNS N07718, Alloy 718.

Alloy 718|ERNiFeCr-2 Filler Metal Chemical Composition

C	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Mo	V	W	Others
0.08	0.35	Balance	0.015	0.015	0.35	0.30	50.0-55.0	/	0.20-0.80	0.65-1.15	17.0-21.0	4.75-5.50	2.80-3.30	/	/	0.50

The nickel content of ERNiFeCr-2 offers strong resistance to active gas corrosion, caustic medium corrosion, reducing acid corrosion and maintains high strength under 649℃ （1200℉）.

Alloy 718|ERNiFeCr-2 weld deposit Mechanical Properties

Grade	Density	Melting Point	Tensile Strength
AWS A 5.14 ASME SFA A5.14	8.2	1321-1393℃ 2409-2539℉	1140Mpa 165Ksi

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ERNiFeCr-2 Welding wire| Welding Rod Cover Gas

Process	Diameter	Voltage	Amperage	Gas
	0.035''(0.9mm)	12.15	60-90	100% Argon
	0.045''(1.2mm)	13.16	80-110	100% Argon
	1/16''(1.6mm)	14.118	90-130	100% Argon
	3/32''(2.4mm)	15.20	120-175	100% Argon
TIG	1/8''(3.2mm)	15.20	150-220	100% Argon
	0.035''(0.9mm)	26-29	150-190	75% Argon+25% Helium
	0.045''(1.2mm)	28-32	180-220	75% Argon+25% Helium
MIG	1/16''(1.6mm)	29-33	200-250	75% Argon+25% Helium

ERNiFeCr-2 Filler Metal Package

Form	Diameter	Length	Package
MIG Spools	0.8mm |1.0mm |1.14mm|1.2mm |1.6mm		33lbs(15kgs)
TIG Rod	2.0mm /2.4mm /2.5mm /3.2mm /4.0mm /5.0mm	915mm-1000mm	11 lbs (5kgs)

What is Alloy 718|ERNiFeCr-2 welding wires| rods used for?

Mainly designed for welding aircraft high strength components exposed to cryogenic temperatures.

Why Choose ToLand's Alloy 718|ERNiFeCr-2 filler metal?

Batch by batch consistency

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Reduced spatter
Smoother feed
Better bead profile
Improved overall productivity

Inconel is a trademark of high-performance nickel-based alloys developed by Special Metals Corporation.

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