ER NiCrMo-10 (Alloy C22)

Nickel Alloy WIRE/GTAW

Standards

EN/ISO-Standard - 18274AWS-Standard - A5.14EN/ISO-Classification - S Ni 6022 - NiCr21Mo13Fe4W3AWS-Classification - ER NiCrMo-10

Features and Applications

- Nickel-chromium-molybdenum alloy designed for joining C22, 625, 825 or combinations of these alloys.
- Provides a tough Nb-free weld metal for dissimilar welds in super austenitic and super duplex stainless steels.
- Offers excellent resistance against stress & corrosion cracking, pitting and crevice corrosion.
- Extensively used for overlays and cladding of lower alloy steels.
- Typically used in the welding of aggressively corrosive media in chemical processing plants, corrosion resistant overlays and in severe offshore and petrochemical environments etc.
- Test Certificates can be found online @wilkinsonstar247.com



Typical Base Materials

Alloy 22, Alloy 625, Alloy 825, Alloy 926*

*	Illustrative,	not	exhaustive	list
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Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF, PG

Shielding Gases	Polarity
EN ISO 14175 - TIG: I1 (Argon)	DC (-)

Mechanical Properties

Tensile Strength	Yield Strength	Elongation	Impact Strength
(N/mm²)	(N/mm²)	(%)	(J)
≥690	-	-	-

Mechanical properties are approximate and may vary based on the heat, shielding gas, welding parameters and other factors.

Chemical Composition % (Range)

С%	Mn %	Fe %	P %	S %	Si %	Cu %	Ni %	Co %	Cr %	Mo %	V %	W %
max	max	2.00	max	max	max	max	49.00	max	20.00	12.50	max	2.50
0.010	0.50	6.00	0.020	0.010	0.08	0.50	min	2.50	22.50	14.50	0.30	3.50
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Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100599	1.60	1000	5	Cardboard Tube
6011100600	2.40	1000	5	Cardboard Tube
6011100601	3.20	1000	5	Cardboard Tube

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