ER NiCrMo-13 (Alloy 59)

Nickel Alloy **TIG/GTAW**

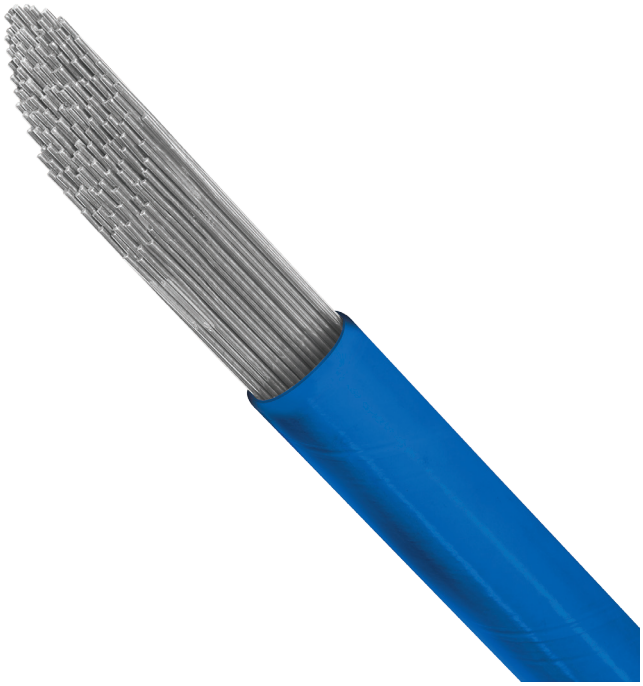
Standards

EN/ISO-Standard - 18274
EN/ISO-Classification - Ni 6059 - NiCr23Mo16

AWS-Standard - A5.14
AWS-Classification - ER NiCrMo-13

Features and Applications

- Alloy 59 is a nickel-chromium-molybdenum alloy with an extra low carbon and silicon content.
- Versatile alloy with excellent wet corrosion resistance for the most demanding applications.
- The high level of Mo is similar to alloy C276 but performs better in a wider range of oxidising media's.
- Typically used in the welding of aggressively corrosive media's, including scrubbers for flue gas desulphurisation, digesters and papermaking equipment, chemical process plants, corrosion resistant overlays and in severe offshore and petrochemical industries etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Typical Base Materials

Alloy 22, Alloy 625, Alloy 276, Alloy 686*

* Illustrative, not exhaustive list

Welding Positions

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

Shielding Gases

EN ISO 14175 - TIG: I1 (Argon)

Polarity

TIG DC (-)

Mechanical Properties

Tensile Strength (N/mm^2)	Yield Strength (N/mm^2)	Elongation (%)	Impact Strength (J)
≥760	-	-	-

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

Chemical Composition of Weld Metal %

C %	Mn %	Fe %	P %	S %	Si %	Ni %	Co %	Al %	Cr %	Mo %
max	max	max	max	max	max	56.00	max	0.10	22.00	15.00
0.010	0.50	1.50	0.020	0.005	0.08	min	0.30	0.40	24.00	16.50

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100602	1.60	1000	5	Cardboard Tube
6011100603	2.40	1000	5	Cardboard Tube
6011100604	3.20	1000	5	Cardboard Tube

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