ER NiCrMo-4 (Alloy C276)

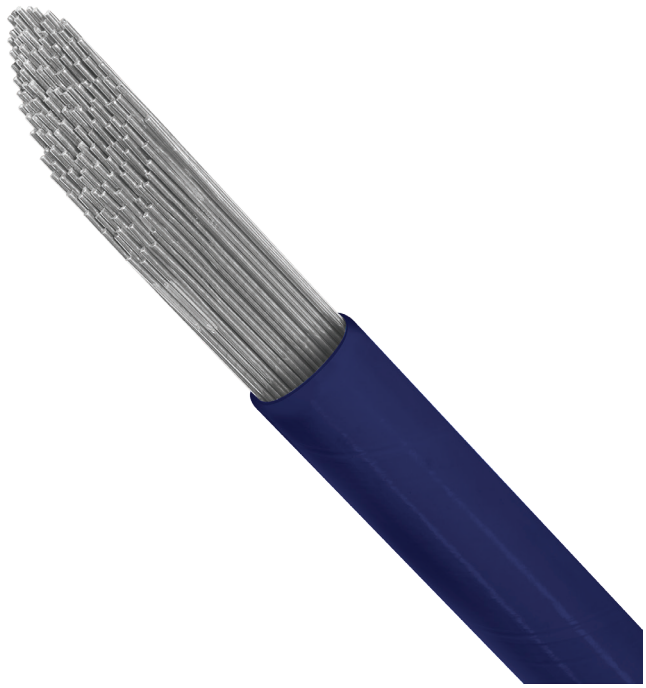
Nickel Alloy **WIRE/GTAW**

Standards

EN/ISO-Standard - 18274
EN/ISO-Classification - S Ni 6276 - NiCr15Mo16Fe6W4
AWS-Standard - A5.14
AWS-Classification - ER NiCrMo-4

Features and Applications

- ER-NiCrMo-4 is used for the welding of alloys that have similar chemical compositions, this includes dissimilar materials of nickel-base alloys, steels and stainless steels.
- Due to the high molybdenum content, this alloy offers excellent resistance against stress & corrosion cracking, pitting and crevice corrosion.
- Typically used on pipelines, pressure vessels, chemical processing plants, offshore oil platforms, gas facilities, power generation and marine environments etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Typical Base Materials

N10276, W.Nr: 2.4819, NiMo16Cr15W, Alloy C4, Alloy C276*

* Illustrative, not exhaustive list

Welding Positions

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

Shielding Gases

EN ISO 14175 - TIG: I1 (Argon)

Polarity

DC (-)

Mechanical Properties

Tensile Strength (N/mm^2)	Yield Strength (N/mm^2)	Elongation (%)	Impact Strength (J)
≥690	-	-	-

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

Chemical Composition % (Range)

C %	Mn %	Fe %	P %	S %	Si %	Cu %	Ni %	Co %	Cr %	Mo %	V %	W %
max	max	4.00	max	max	max	max	50.00	max	14.50	15.00	max	3.00
0.020	1.00	7.00	0.020	0.015	0.08	0.50	min	2.50	16.50	17.00	0.30	4.50

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100596	1.60	1000	5	Cardboard Tube
6011100597	2.40	1000	5	Cardboard Tube
6011100598	3.20	1000	5	Cardboard Tube