

# ER Ni-1 (Alloy 200)

Nickel Alloy WIRE/GTAW

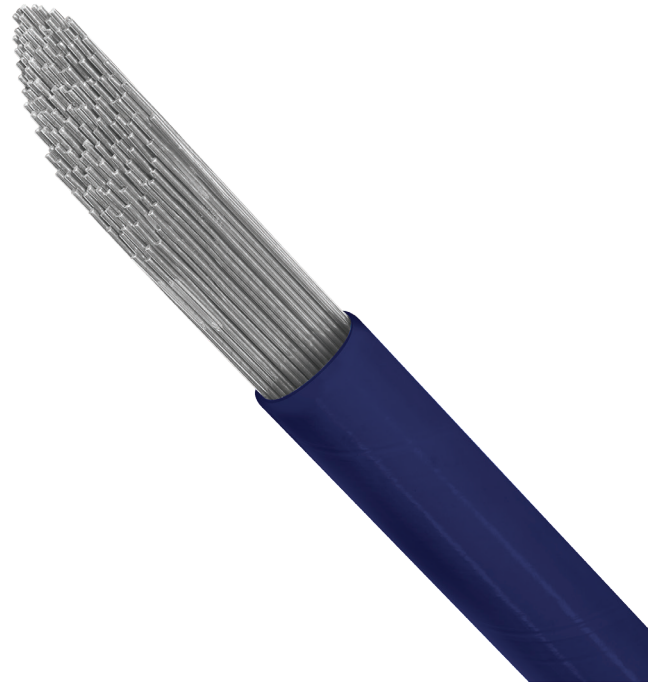
## Standards

EN/ISO-Standard - 18274  
EN/ISO-Classification - S Ni 2061 - NiTi3

AWS-Standard - A5.14  
AWS-Classification - ER Ni-1

## Features and Applications

- ER-Ni1 is used for the welding and cladding of Nickel 200 and Nickel 201 alloys.
- Perfect for joining Monel alloys and copper-nickel alloys to carbon steels.
- Ni1 contains enough titanium to control the weld-metal porosity on welding processes.
- Typically used in the chemical processing industries, synthetic fibre production & food processing equipment etc.
- Test Certificates can be found online @wilkinsonstar247.com**



## Typical Base Materials

Nickel 200 and 201\*

\* 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 <sup>2</sup> )	Yield Strength (N/mm <sup>2</sup> )	Elongation (%)	Impact Strength (J)
≥410	≥200	≥30	≥100

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 %	Ti %	Al %
max	max	max	max	max	max	max	93.00	max	2.00	max
0.05	0.80	0.70	0.030	0.010	0.75	0.20	min	1.00	3.50	1.00

## Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6031100304	1.60	1000	5	Cardboard Tube
6031100110	2.40	1000	5	Cardboard Tube

**Liability:** Whilst all reasonable efforts have been made to ensure the accuracy of the information contained, this information is subject to change without notice and can be only considered as suitable for general guidance.

