

Nickel 200 / 201 Welding Wire (UNS N02200 / N02201) — Technical Data Sheet

ERNi-1 bare wire to AWS A5.14 and ENi-1 covered electrodes to AWS A5.11 for joining UNS N02200 and N02201 — figures are typical published all-weld-metal values; your weld procedure qualification governs.

Chemical Composition — Base Metal UNS N02200 / N02201 (the deposit is certified to AWS A5.14 / A5.11)

Element	Nickel 200 (UNS N02200)	Nickel 201 (UNS N02201)
Nickel (Ni), min.	99.0%	99.0%
Copper (Cu), max.	0.25%	0.25%
Iron (Fe), max.	0.40%	0.40%
Manganese (Mn), max.	0.35%	0.35%
Carbon (C), max.	0.15%	0.02%
Silicon (Si), max.	0.35%	0.35%
Sulfur (S), max.	0.01%	0.01%

Typical All-Weld-Metal Mechanical Properties (AWS)

Product (all-weld metal)	Tensile Strength	Yield Strength (0.2%)	Elongation
ERNi-1 bare wire (AWS A5.14)	Approx. 65 ksi (450 MPa), typical	Approx. 37 ksi (255 MPa), typical	Approx. 28%, typical
ENi-1 covered electrode (AWS A5.11)	Approx. 65 ksi (450 MPa), typical	Approx. 38 ksi (262 MPa), typical	Approx. 27%, typical

Filler Metal Classifications

Product	AWS Class	Key Composition	Typical Strength	Best Suited For
Bare wire	ERNi-1 (A5.14) / S Ni 2061	Ni 93.0 min%, Ti 2.5–3.5%	Approx. 65 ksi (450 MPa)	GTAW primary, GMAW general
Covered electrode	ENi-1 (A5.11)	Same core wire with a basic covering	Approx. 65 ksi (450 MPa)	SMAW repair and field work

Filler Metal Identification (ERNi-1 / ENi-1)

Property	Value
Filler Metal	ERNi-1 (AWS A5.14)
Covered Electrode	ENi-1 (AWS A5.11)
UNS	N02061
ISO Designation	S Ni 2061
DIN Designation	SG-NiTi4 (W.Nr. 2.4155)
Titanium Addition	Approx. 2.5–3.5% (stabilizes carbon)

Standards and Designations

Standard	Product or Application
AWS A5.14	ERNi-1 bare nickel filler wire
AWS A5.11	ENi-1 covered nickel electrode
ASME SFA-5.14	ASME version of the bare filler specification

Surface Finishes (Welding Wire)

Surface Condition	Typical Use
Clean Bright	The standard finish for bare ERNi-1 welding wire, with no copper coating.
Spool Wound	Layer-wound welding wire for smooth GMAW feeding.
Straight Rods	Cut TIG rods of this welding wire with clean, deburred ends.

Typical Supply Dimensions — Welding Wire

Product Form	Typical Supply	Length
TIG Filler Rod (GTAW)	1.6 / 2.4 / 3.2 mm × 1000 mm	5 kg tube
MIG Wire (GMAW)	0.9 / 1.14 mm	Spool
Straight Cut Wire	0.8–3.2 mm dia.	Straight lengths
Covered Electrode (SMAW)	2.4 / 3.2 mm	Sealed pack
Custom Winding	To drawing	Custom

Values are for reference; the mill test certificate prevails for final acceptance. Dimensions, heat-treatment conditions, and surface finishes are confirmed at quotation.
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