

Nickel Alloy

Classification

AWS 5.14 ERNi-1

Chemical Composition: %

C	Mn	Fe	P	S	Si	Cu	Ni	Al	Ti	Other
≤0.15	≤1.0	≤1.0	≤0.03	≤0.015	≤0.75	≤0.25	≥93.0	≤1.5	2.0-3.5	≤0.15

Mechanical and physical properties

Tensile strength: 65,000 PSI

Yield Strength: 37,000 PSI

Elongation: 27 %

Joining process

Filler metal used for MIG, TIG, Argon arc welding of nickel.

Description and Applications

It is intended for welding wrought and cast forms of commercially pure nickel alloy to itself using the GTAW, GMAW, SAW, and PAW processes. The filler metal contains sufficient titanium to control weld-metal porosity with these welding processes.

Availability

Rods: ϕ 1.5-5.0mm Max.Length: 1000mm

Wire: ϕ 0.8, 1.0, 1.2, 1.6mm on spools D300

Strip

Other dimensions are available upon request

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