

Classifications

EN ISO 24373-A

AWS A5.7

S Cu 7158 (CuNi30)

ERCuNi

Characteristics and typical fields of application

GTAW rod for joining and surfacing of similar alloyed base metals with up to 30% Nickel, as well as for non ferrous alloys and steels of different nature. Due to the excellent resistance to sea water, it is best suitable for offshore applications, oil refineries, seawater desalination plants, ship building and also for chemical and food industry.

Base materials

Copper nickel alloys with up to 30 % nickel
CuNi10Fe1Mn (2.0872), CuNi20Fe (2.0878), CuNi30Fe (2.0882)
UNS C71500, C70600

Typical analysis of the TIG rods (wt.-%)

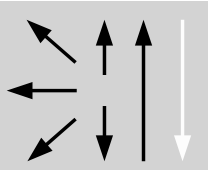
	C	Mn	Ni	Fe	Ti	Cu
wt-%	< 0.05	0.8	30	0.6	< 0.5	Bal.

Mechanical properties of all-weld metal

Condition	Yield strength R _e	Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Hardness
	MPa	MPa	%	HB
u	≥ 200	≥ 345	≥ 30	120

u untreated, as welded – shielding gas Argon

Operating data

	Polarity: DC (-)	Shielding gas: 100 % Argon	Rod marking: front: ✦ 2.0837 back: ERCuNi7	ø (mm) 1.6 2.0 2.4
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Approvals

TÜV (10517.), CE, GL