

CUROD 70/30 is an S Cu 7158 / ER CuNi type solid TIG welding rod, depositing Cu-30Ni weld metal. Suitable for use with inert shielding gases.

CUROD 70/30 is suitable for welding all copper-nickel alloys such as 70/30 - 80/20 - 90/10. Excellent corrosion resistance in saline solutions.

The nickel addition strengthens the weld metal and improves the corrosion resistance, particularly against salt water. The weld metal has good hot and cold ductility.

Classification

EN ISO	24373: S Cu 7158 (CuNi30Mn1FeTi)
AWS	A5.7: ER CuNi

Chemical analysis (Typical values in %)

Mn	Si	Ni	Cu	Fe	Ti
0.9	0.2	30	Rest	0.5	0.3

All-weld metal Mechanical Properties

Heat Treatment	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation A5 (%)	Impact Energy ISO - V (J)
				+20 °C
As Welded	≥250	≥345	≥20	>150

Gas test: 100% Ar

Shielding Gas - EN ISO 14175 : I1

Materials

2.0872 (CuNi10Fe1Mn9); 2.0882 (CuNi30Mn1Fe); 2.0837

UNS C70600; UNS C71500

Storage

Keep dry and avoid condensation.

Current condition and welding position

DC-

