

## MIG/MAG solid wires-TIG rods Nickel and Copper alloys

COPPERFIL 70/30 is an S Cu 7158 / ER CuNi type solid MIG welding wire, supplied precision layer wound, depositing Cu-3Si weld metal. Suitable for use with inert shielding gases.

COPPERFIL 70/30 is a solid wire 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, I3

### Materials

2.0872 (CuNi10Fe1Mn9); 2.0882 (CuNi30Mn1Fe); 2.0837

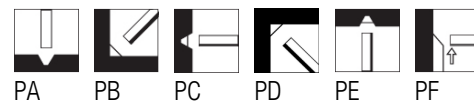
UNS C70600; UNS C71500

### Storage

Keep dry and avoid condensation.

### Current condition and welding position

DC+



### Packaging data

Packaging Type	BS300
Diam(mm) / weight(kg)	15
1.0	●
1.2	●