

## International standards

S = solid wire	
Material No.	2.0837
DIN 1736	S CuNi30 Mn
AWS A 5.6	E CuNi

## Approvals

### Application notes

Solid wire electrode suitable for joining and surfacing alloys of similar composition with up to 30% nickel as well as non-ferrous alloys and dissimilar steel grades.  
The deposit weld metal is highly resistant to seawater, typical applications include usage in shipbuilding, oil refineries, food processing industry, the engineering of general corrosion proof vessels and equipment.

### Base materials

- Cooper-nickel alloys up to 30% Ni content
- CuNi30Mn, CuNi30Mn1Fe, CuNi10Fe1Mn, CuNi20Fe, CuNi25, CuNi44Mn
- Material No. 2.0890, 2.0882, 2.0872, 2.0878, 2.0830, 2.0842
- Dissimilar joining nickel to copper-nickel alloys

### Mechanical properties of all-weld metal ( typical values)

Tensile strength MPa	0,2% Yield strength MPa	Hardness HB	Elongation A <sub>5</sub> %
≥ 390	≥ 240	105	≥ 25

### Weld metal analysis (typical, wt %)

C	Mn	Si	S	P	Fe	Cu	Ni
0,015	1,80	0,40	0,010	0,15	0,60	Bal.	30,0

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