ROHRLINE

ROHRE. VERBINDEN. ZUKUNFT.

Material data sheet
rohrline.at

CuNi 90/10

Copper-nickel alloy · Material no. 2.0872

CuNi 90/10 is a copper-nickel alloy with excellent resistance to seawater and biofouling – the classic for shipbuilding and seawater piping.

2.0872	≥ 90–120 MPa	≥ 290 MPa	seawater & cooling systems
MATERIAL NO.	YIELD STRENGTH RP0.2	TENSILE STRENGTH RM	SERVICE TEMP.

Application

- Seawater and shipbuilding piping
- Heat exchangers and condensers
- Cooling-water systems near the sea

Chemical composition (typical, wt.-%, per EN)

Element	Content (%)
Cu	Rest
Ni	9.0–11.0
Fe	1.0–2.0
Mn	0.5–1.0
Pb	≤ 0.02

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2	≥ 90–120 MPa
Tensile strength Rm	≥ 290 MPa
Elongation A	≥ 30 %

Standards & supply

Topic	Detail
Standards	EN 12449 / EN 12451
ASME/ASTM equivalent	~ UNS C70600

Topic	Detail
Short name / aka	CuNi10Fe1Mn · CW352H
Product forms	Pipes, flanges, fittings – seamless/welded, EN 10204 3.1/3.2 mill certificate

ROHRLINE · Gewerbering 19/1/6, 3484 Grafenwörth, Austria · +43 (0) 664 1203063 · office@rohrline.at · rohrline.at/en/werkstoff-cuni-90-10.html