

Standards

Material No.	EN Material No.	EN Designation
2.0971	CW304G	CuAl9Ni3Fe2

Description

CuAl9Ni3Fe2 is a copper-aluminum-alloy with iron and nickel contents.

Special properties

Good corrosion and seawater resistance. No stress corrosion. High wear resistance. High resistance to scaling.

Chemical Composition

Si ≤ %	Mn ≤ %	Ni %	Cu %	Al %
0.10	2.50	2.00-4.00	Rest	8.00-9.50
Fe %	Pb %	Zn %		
1.00-3.00	≤ 0.05	≤ 0.20		

Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
130	290	≥ 600	16-22	120

Physical Properties 20°C

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical conductivity MS/m
7.6	450	50	4-6

Application

Gearings, axes, plunger, valves

Available forms for 2.0971 / CuAl9Ni3Fe2

Forged / cast parts	Finished part (drawing)
	