

Standards

Material No.	EN Material No.	EN Designation	UNS
2.0966	CW307G	CuAl10Ni5Fe4	C63000

Description

CuAl10Ni5Fe4 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 %
0.20	1.00	4.00-6.00	Rest	8.50-11.0
Fe %	Pb %	Zn %		
3.00-5.00	≤ 0.05	≤ 0.40		

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
195	330	700-740	10-15	117

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	63	4.6

Application

Gearings, axes, plunger, valves

Available forms for 2.0966 / CuAl10Ni5Fe4

Sheets/Plates	Bars	Tubes/Pipes	Forged / cast parts	Finished part (drawing)
				