

Standards

Material No.	EN Material No.	EN Designation	UNS
2.0975	CC333G	CuAl10Ni5Fe5-C	C95800

Description

CuAl10Ni5Fe5-C is a copper-aluminum-alloy with iron and nickel contents.

Special properties

High mechanical properties. Excellent fatigue strength. Seawater resistance. Good wear resistance.

Chemical Composition

Si ≤ %	Mn ≤ %	Ni %	Cu %	Al %
0.10	3.00	4.00-6.00	76.0-83.0	8.50-11.0
Fe %	Mg %	Pb %	Zn %	
4.00-5.50	≤ 0.05	≤ 0.03	≤ 0.50	

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
150	250	600-650	13	124

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	420	51	4.6

Application

Apparatus construction, petrochemical industry, pumps, propeller

Available forms for 2.0975 / CuAl10Ni5Fe5-C

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