≈2.1285 CuCo1Ni1Be

Trade name

CCNB

Standards

Material No.	EN Material No.	EN Designation	UNS
≈2.1285	CW103C	CuCo1Ni1Be	C17500/10
RWMA			
Class 3			

Description

CuCo1Ni1Be is a low-contained copper alloy and is thermally aged.

Special properties

Good mechanical properties and a high thermal and electrical conductivity. High strength.

Chemical Composition

Ni %	Cu %	Co %	Fe %	Be %
0.80-1.30	Rest	0.80-1.30	≤ 0.20	0.40-0.70

Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R_p ≥ N/mm²	Tensile strength R_m N/mm²	Elongation A_5 ≥ %	Modulus of elasticity kN/mm²
280	550	680-810	8	135

Physical Properties 20°C

Density g/cm³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical conductivity MS/m
8.85	420	230-250	≥ 25

Application

Aluminum die-casting, mould construction, welding technology

Available forms for ≈2.1285 / CuCo1Ni1Be

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