

Trade name | CNCS

Standards

Material No.	EN Material No.	EN Designation	UNS
≈2.0855	CW111C	CuNi2SiCr	C18000
RWMA			
Class 3			

Description

CuNi2SiCr 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

Si ≤ %	Mn ≤ %	Cr %	Ni %	Cu %
0.50-0.80	0.10	0.20-0.50	2.00-3.00	Rest
Fe %	Pb %			
≤ 0.15	≤ 0.02			

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
220	500	650-780	10	140

Physical Properties 20°C

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical conductivity MS/m
8.84	420	190-240	≥ 23

Application

Aluminum die-casting, mould construction, welding technology

Available forms for
≈2.0855 / CuNi2SiCr

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