

CuNi2Si | Flat bars



Alloy	CuNi2Si, CW111C
Condition	drawn
Norm	DIN EN 12163:1998 / 12167
Tolerance	DIN 12163 / 12167 Class A
Electr. Conductivity	IACS app. 34 % / MS/m app. 20
Thermal Conductivity 20 °C	67 to 120 W/m K
Bendability	not suitable
REACH	no obligation
RoHS	conform

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p0.2}$	Elongation A	Hardness HB
M	as manufactured seek for			
Thickness 3-30 mm R600-H165	$\geq 600 \text{ N/mm}^2$	$\geq 520 \text{ N/mm}^2$	$\geq 10 \%$	165-210
Thickness 31-30 mm R550-H150	$\geq 550 \text{ N/mm}^2$	$\geq 430 \text{ N/mm}^2$	$\geq 15 \%$	150-190

Combines relatively high strength values with relatively good electrical conductivity when cured. Excellent temperature resistance at low and high temperatures up to approx. 450 °C. High wear resistance and corrosion resistance, good sliding properties. Fixing parts that must be corrosion-resistant and have good conductivity. Highly stressed bearing bushings, pressure discs and slipways. Shipbuilding, marine engineering and apparatus engineering.

Chemical Analysis

Cu Rest
Ni 1.6-2.5 %
Si 0.4-0.8 %
Mn max. 0.1 %
Fe max. 0.2 %
Pb max. 0.02 %
Others max. 0.3 %

Comparable Specifications

CuNi2Si, 2.0855, DIN 17666
C64700, C18000 UNS
C 102, BS 2872, 2874