



VULCAN INDUSTRIAL ESTATE
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CW111C (CuNi2Si)

Standardised Names		Chemical Composition			
EN 12163	CW111C (CuNi2Si)	Elements	%	Impurities	% Max
DIN 17666	CuNiSi - 2.0855	Ni	2.25	Pb	0.02
		Si	0.65	Mb	0.1
				Fe	0.2
				Other	0.3
		Cu	Remaining		

Typical Applications

Cupro Nickel, Electrical Equipment, Railway, Marine, Automotive

Physical Characteristics at 20°C	
Density (g/cm ³)	8.7
Young's Modulus (Gpa)	140
Coulomb Modulus (Gpa)	52
Linear Expansion (20-300°C)	16

Technical Specifications :	
Thermal Conductivity (W/m.K)	84
Temperature Relaxation	425-490
Annealing Temperature	750-850

Characteristics :	Mechanical				Electrical		
Diameter of ref 19mm	Rp 0.2 (Mpa)	Rm (Mpa)	A (%)	HB	Conductivity (%I.A.C.S)	Resistance	
Value	420	450	16	150	26	6.6	

General Skills		
Hot Deformation	50	Good
Cold Deformation	50	Good
Cutting	40	Average
Corrosion Resistance		Excellent
Percentage of General Skills: 47%		

Range of Manufacture (mm)	
	Round
Dia	10 - 60