

Alloy Designation	
EN	CuNi18Zn20 / CW409J
DIN	CuNi18Zn20 / 2.0740
UNS	C75200 ASTM B122
JIS	C7521

Chemical Composition		
Cu	63.0 - 66.5	%
Ni	16.5 - 19.5	%
Zn	Remainder	

Characteristics
C75200 nickel silver 65-18 copper alloy has high corrosion and tarnish-resistance, good formability, and moderately high work-hardening rate.

Main Applications
Musical instrument valves and components
Costume jewelry
Shielding Cover of mobile phone
Slide fasteners

Physical Properties (Reference values at room temperature)		
Density	g/cm3	8.72
Electrical conductivity	IACS%(20°C)*	6
Modulus of elasticity	KN/mm ²	124
Coefficient of thermal expansion	10 ⁻⁶ /K	16.2
Thermal conductivity	W/(m*K)	32

*value for the lowest temper class

Mechanical Properties							
TEMPER		Tensile Strength Mpa	Yield Strength Mpa	Elongation %	Hardness HV	Bending Test (90°) GW BW	
O61	O	355 - 450	min. 125	min. 29	90 - 120	0	0
H02	1/2H	440 - 570	min. 330	min. 6	120 - 180	0.5	0.8
H04	H	540 - 640	min. 515	min. 3	150 - 210	1.5	1.5
H06	EH	min. 595	min. 585	min. 3	min. 185	2.0	2.0

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