

# Nickel Silver (Copper-Nickel-Zinc) ND12 | ND18 |



Material Designation		
Sundwiger	ND12	ND18
DIN-EN Symbol	CuNi12Zn24	CuNi18Zn20
DIN-EN	CW403J	CW409J
UNS	C75700	C76400

Reference to Standards	
DIN	EN 12166

Typical Applications
<ul style="list-style-type: none"> <li>Clips for pens, zip fasteners</li> <li>Connection wire, spring wire</li> <li>Spectacle frames, optical industry</li> <li>Fashion jewelry</li> <li>Model railway tracks</li> <li>Bridges for musical instruments</li> <li>Scrub sponges</li> </ul>

About the Alloy
Nickel silver is distinguished by its good strength and spring properties and shows a high tarnish and high chemical corrosion resistance.
It is very suitable for electro-plating, cladding and soldering.

Mechanical Properties*			
Sundwiger		ND12	ND18
Tensile strength in N/mm <sup>2</sup>	soft	370 - 480	420 - 540
	1/4 hard	460 - 560	510 - 610
	1/2 hard	560 - 660	600 - 700
	hard	660 - 780	700 - 800
	spring-hard	min 780	min 800
Elongation A100 in %, soft		> 30	
* Reference values			

Physical Properties*		
Sundwiger	ND12	ND18
Electrical conductivity in MS/m, hard	≥4	≥2,9
Thermal conductivity in W/(m*K)	35	25
Density in g/cm <sup>3</sup>	8,7	8,7
* For information only		

Your Contact Person	
Worldwide	
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Available Dimensions		
Rolled, modified square wire	5,1 mm 7,4 mm	max. 1000 kg
Round wire	1,2 - 6,2 mm in coils	max. 200 kg
	1,8 - 6,2 mm on stands	max. 1500 kg
	0,5 - 3 mm on reels	max. 1000 kg
	1,5 - 3 mm on acropaks	max. 400 kg
	On request: in drums	max. 400 kg

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