

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

Mechanical Properties*				
Sundwiger		ND12	ND18	
Tensile strength in N/mm ²	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				

Your Contact Person	
Worldwide	
Sundwiger Messingwerk	<p>Sundwiger Messingwerk GmbH</p> <p>Hönnetalstraße 110 58675 Hemer Deutschland Tel. +49 2372 661-0 Fax +49 2372 661-259 E-Mail: sales-sundwig@sundwiger-mw.com www.sundwiger-mw.com</p>

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 electroplating, cladding and soldering.

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

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 ³	8.7	8.7	
* For information only			

Available Dimensions		
Rolled, modified square wire	5.1 mm 7.4 mm	max. 1000 kg
	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
Round wire	On request: in drums	max. 400 kg

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