

Nickel Silver (Copper-Nickel-Zinc) ND07 | ND12 | ND18



Material Designation			
DMA Symbol	ND07	ND12	ND18
DIN-EN Symbol	CuNi8Zn28	CuNi12Zn24	CuNi18Zn20
DIN -EN	-	CW403J	CW409J
UNS	C74300	C75700	C76400

Reference to Standards	
DIN	EN 12166

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.

- Typical Applications**
- Clips for pens, zip fasteners
 - Connection wire, spring wire
 - Spectacle frames, optical industry
 - Fashion jewelry
 - Model railway tracks
 - Bridges for musical instruments
 - Scrub sponges

Mechanical Properties*				
DMA Symbol		ND07	ND12	ND18
Tensile strength in N/mm ²	soft	370 - 480	370 - 480	420 - 540
	1/4 hard	460 - 560	460 - 560	510 - 610
	1/2 hard	560 - 660	560 - 660	600 - 700
	hard	660 - 780	660 - 780	700 - 800
	spring-hard	min 780	min 780	min 800
Elongation soft A100 in %		> 30		
* Reference values				

Physical Properties*			
DMA Symbol	ND07	ND12	ND18
Electrical conductivity in % IACS (hard condition)	9	7	5
Electrical conductivity in MS/m	5.2	4	2.9
Density in g/cm ³	8.7	8.7	8.7
* For information only			

Your Contact Person	
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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
Round wire	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

DMA_Wire_Nickel Silver_V1_M-SM

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