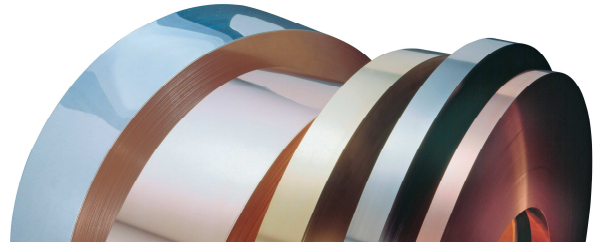


## Nickel Silver NX13



Material Designation	
DIN-EN Symbol	CuNi12Zn25Pb1
DIN-EN	CW404J
UNS	C79200
JIS	-
Abbreviation Sundwig	CuNi13Zn24Pb1

Nominal Composition (mass content in %)	
Cu	Balance
Zn	24
Ni	13
Pb	1
Typical Applications	
<ul style="list-style-type: none"> <li>Security keys</li> </ul>	

### About the Alloy

NX13 – a special nickel silver – is mainly used for security keys. It is preferred for the production of keys due to the following properties:

- Excellent punching quality and good stampability
- Particularly good machinability
- Optimum strength properties
- Very good corrosion resistance

At the request of the customer or the type of application NX13 is produced in the tempers HB160 and HB170; other tempers are possible and can be supplied on request.

### Mechanical Properties

Zustand	Rm MPa	Rp0.2 MPa	A50 %	HB	Hv
R350 soft	350 - 450	< 300	> 25	85 - 115	90 - 125
R450 H01	450 - 520	> 310	> 12	115 - 150	125 - 160
R500 H02	500 - 600	> 450	> 5	145 - 170	155 - 185
<b>R600 H04</b>	<b>600 - 710</b>	<b>&gt; 580</b>	<b>&gt; 2</b>	<b>170 - 190</b>	<b>185 - 210</b>
R670 H06	> 670	> 650	-	> 180	> 200

In the case of key blanks the hardness value is referred to the strip before punching. For key blanks the tempers HB160 or HB170 are preferred. HB160 - 180 and HB170 - 190 are restricted special grades for key blanks.

### Delivery Range of Semi-Finished Products

	Strip	Key blanks
Thick-ness	1.5 - 2.6 mm 2.6 - 3.5 mm	Punched according to customer's drawing using our own or customer-supplied tools.
Width	min. 30 mm min. 58 mm	In cooperation with a sub-supplier, we also supply blanks in processed form.

### Your Local Contact Person

Europe

Asia

**SUNDWIGER**  
Messingwerk

**SUNDWIGER**  
Messingwerk

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We reserve the right to make alterations especially where necessitated by technical developments or changes in availability.