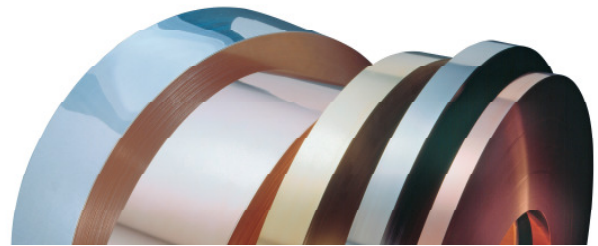


# Nickel Silver NX13



Material Designation	
DIN-EN Symbol	CuNi12Zn25Pb1
DIN-EN	CW404J
UNS	C79200
JIS	-
Abbreviation Sundwig	CuNi13Zn24Pb1
The Miller Company	C792

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
<p>NX13 – a special nickel silver – is mainly used for security keys. It is preferred for the production of keys due to the following properties:</p> <ul style="list-style-type: none"> <li>Excellent punching quality and good stampability</li> <li>Particularly good machinability</li> <li>Optimum strength properties</li> <li>Very good corrosion resistance</li> </ul> <p>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.</p>

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

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.

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.

Your Local Contact Person		
Europe	USA	Asia

**DIEHL**  
Metal Applications



**DIEHL**  
Metal Applications

<p>Sundwiger Messingwerk GmbH &amp; Co. KG</p> <p>Hönnetalstraße 110 58675 Hemer Germany Phone +49 2372 661-100 Fax +49 2372 661-48100 E-Mail: michael.koehler@diehl.com</p> <p>www.diehl.com/metall</p>	<p>The Miller Company</p> <p>275 Pratt Street CT 06450 Meriden USA Phone +1 203 63969-02 Fax +1 203 63969-24 E-Mail: sales-meriden@diehl.com</p> <p>www.diehl.com/metall</p>	<p>Diehl Metall (Shenzhen) Co. Ltd.</p> <p>Block 25 Shatoujiao Free Trade Zone 518081 Shenzhen - P.R. China Phone +86 755 2526-14540 Fax +86 755 2526-0974 E-Mail: sales-shenzhen@diehl.com</p> <p>www.diehl.com/metall</p>
--	--	---

Diehl Metall\_Strips\_NX13\_V1\_M-SM

The information given in this material data sheet, which in any case provides no guarantee of particular characteristics, has been compiled to the best of our knowledge but is given without any obligation on our part. Our liability is determined solely by the individual contract terms, in particular by our general conditions of sale.

We reserve the right to make alterations especially where necessitated by technical developments or changes in availability.  
Please ask for the latest edition of this material data sheet.