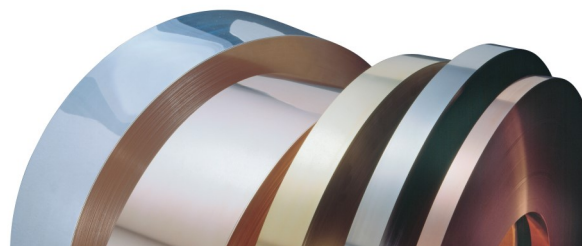


## Nickel Silver NX05



Material Designation	
DIN-EN Symbol	CuNi5Zn28Pb1
DIN-EN	-
UNS	C78270
JIS	-
Abbreviation Sundwig	CuNi5Zn28Pb1
The Miller Company	C7827

Nominal Composition (mass content in %)	
Cu	Balance
Zn	27
Ni	5,5
Pb	1

Typical Applications	
• Security keys	

About the Alloy	
NX05 – a special nickel silver – is mainly used for security keys. It is preferred for the production of keys due to the following properties:	
<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>	
At the request of the customer or the type of application NX05 is produced in the temper HB140 or HRB83; other tempers are possible and can be supplied on request.	

Mechanical Properties					
Temper	Rm MPa	Rp0.2 MPa	A50 %	HB	HRB
R250 soft	250 - 350	< 250	> 18	80 - 110	38 - 63
R310 H01	310 - 410	> 250	> 15	90 - 120	48 - 70
R360 H02	360 - 460	> 320	> 10	110 - 140	63 - 83
<b>R460 H04</b>	<b>460 - 560</b>	<b>&gt; 420</b>	<b>&gt; 6</b>	<b>140 - 170</b>	<b>83 - 87</b>
R560 H06	560 - 660	> 520	> 3	170 - 200	87 - 94

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. In cooperation with a sub-supplier, we also supply blanks in processed form.
Width	min. 30 mm min. 58 mm	

In the case of key blanks the hardness value is referred to the strip before punching.  
For key blanks the temper HB140 or HRB83 are preferred.

Your Local Contact Person		
Europe	USA	Asia

**DIEHL**  
Metal Applications

**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>5F, Block 25, Shatoujiao Free Trade Zone 518081 Shenzhen P.R. of China Tel. +86 755 2235 7466 Fax +86 755 25260974 E-Mail: sales-shenzhen@diehl.com</p> <p>www.diehl.com/metall</p>
--	--	--

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.