

CuNi13Zn24S0,1

Material Designation

DIN-EN Symbol	(CuNi13Zn24S0,1)
DIN-EN	-
UNS	-
JIS	-
Abbreviation Sundwig	SN01

Nominal Composition (mass content in %)

Cu	Balance
Zn	24
Ni	13
S	0.1
Pb	< 0,1

Mechanical Properties

Condition	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
R600 H04	600 - 710	> 580	> 2	170 - 190	185 - 210
R670 H06*	> 670	> 650	-	> 180	> 200

*Available on request

About the Alloy

SN01 is the new lead-free and machining-optimised nickel silver alloy from Sundwiger Messingwerk. SN01 is the lead-free alternative to conventional lead-containing nickel silver alloys and was developed primarily for the production of high-quality keys.

This innovative material offers the advantages of conventional lead-containing nickel silver, including excellent corrosion resistance and the usual mechanical properties. Its good machinability is achieved through the targeted adjustment of sulfides with a chip-breaking effect. Independent test series confirm a machinability index of 97% on conventional machines with adjustment of parameters and tools.

With a lead content of < 0.1%, SN01 meets the requirements for lead-free materials. An even lower lead content (0.01%) can be adjusted on request.

We are happy to support you in converting your production to a lead-free future.

Typical Applications

- Security keys

Delivery Range of Semi-Finished Products

	Strip	Key blanks
Thickness	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	

Your Local Contact Person

Europe

Asia



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