

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

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.

The new material offers the same advantages as conventional lead-containing nickel silver. These include good corrosion resistance and proven mechanical properties. Machinability is achieved through sulfides resulting from a targeted sulfur alloying approach that ensure controlled chip breaking. Independent tests on conventional machines have demonstrated that, with adapted tooling and machining parameters, the material can be processed almost as effectively as in the standard production process.

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.

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

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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