

wieland



Our variety –  
**Your choice!**

Our new lead-free  
ecoline<sup>®</sup> alloys

**Let's go lead-free!**



ecoline®	EN designation	EN Nr.	UNS Nr.	Lead content	Machinability	Cold forming	Hot forming	IACS	Application				possible substitute for...	Regulations
				[%]	[%]				🔧	🚗	🔌	💡		
eco SW1	CuZn21Si3P	CW724R	C69300	≤ 0.09	90	good	very good	7.8					Z45 - CW602N - C35330	RoHS, ELV, DWD, SDWA
eco SW3	CuZn21Si3P-C-GC	CC768S	C87850	≤ 0.09	80			7.8	☑	•	•		GD1 - CC499K	DWD, SDWA
ecobrass SW4	CuZn21Si3P	CW724R	C69305	≤ 0.09	90	good	very good	7.8	☑				Z45 - CW602N - C35330	DWD, SDWA
eco SW5	CuZn21Si3P	CW724R	C69300	≤ 0.05	90	good	very good	7.8				•	Z33 - CW614N	REACH Annex 17
eco SZ2	CuZn36Si1P (Globrass)	CW726R	C68370	≤ 0.1	85	average	very good	16		•	•		Z33/Z41/Z48 - CW614N, CW617N - C38500	RoHS, ELV, DWD
eco SZ3	CuZn40SiP	CW728R	C68330	≤ 0.1	90	less suitable	very good	23		•	•	•	Z33/Z41/Z48 - CW614N, CW617N - C38500, Z23- CW603N - C36000	RoHS, ELV, DWD, SDWA
eco SZ4	CuZn42	CW510L	C28500	≤ 0.1	85	less suitable	very good	25		•	•	•	Z33/Z41/Z48 - CW614N, CW617N - C38500, Z23- CW603N - C36000	RoHS, ELV, DWD, SDWA
eco SZ5	CuZn40	CW509L	C27450	≤ 0.1	75	average	good	25		•	•	•	Z29 - CW612N - C37700, Z12 - CuZn35Pb2 - C34200/C34500, Z23- CW603N - C36000	RoHS, ELV, DWD, SDWA
eco ST2	CuZn35Sn1P	CW727R		≤ 0.1	50	good	average	26	☑				Z45 - CW602N - C35330	DWD, SDWA
eco ST3	CuZn29Si1SnP	CW729R		≤ 0.1	70	good	good	12	☑				Z45 - CW602N - C35330	DWD
eco ST4	CuZn42	CW510L		≤ 0.2	90	less suitable	very good	25		•			Z33/Z41/Z48 - CW614N, CW617N - C38500	DWD, SDWA, Blei max. 0,2%
eco M43	CuZn38As	CW511L	C27450	≤ 0.1	50	good	good	25	☑				Z45 - CW602N - C35330	DWD, SDWA
eco GS1	CuSn4Zn2PS-C-GC	CC470K		≤ 0.09	70			20	☑				GD1 - CC499K	DWD, SDWA
eco SX1	CuZn31Mn2SiAl			≤ 0.1	70	good	very good	17			•		S40 - CW713R - C67420	ELV
eco SD4	CuZn37Mn3Al2Si			≤ 0.1	45	less suitable	very good	13			•		S40 - CW713R - C67420	ELV
eco BS4	CuSn5NiPS			≤ 0.1	70	good	less suitable	14.7				•	B44 - CC499K - C54400	RoHS
eco KS2	CuSP	CW114C	C14700	≤ 0.1	80	very good	average	90				•	KC1 - CW113C - C18700	RoHS
eco KS4	CuNi1SP			≤ 0.1	70	good	average	50				•	K41 - C19150, C19160	RoHS
eco M58	CuZn42	CW510L		≤ 0.009	50	less suitable	very good	24				•		REACH Annex 17, CPSIA
eco N59	CuNi9Zn41FeMn			≤ 0.1	50	average	good	10			•	•	N48 - CW407J	RoHS, ELV

Wieland-Werke AG | Graf-Arco-Straße 36 | 89079 Ulm | Germany  
info@wieland.com | wieland.com

This printed matter is not subject to revision. No claims can be derived from it unless there is evidence of intent or gross negligence.  
The product characteristics are not guaranteed and do not replace our experts' advice.

☑ Corrosion res. ISO 6509