

Alloy overview bercoweld®

	bedra alloy	Standard	Chemical Composition (Reference values %)									
			Si	Fe	Al	Mn	Sn	P	Ni	Cu	Others	
Low alloyed	bercoweld® K3 (SF-Cu)	CuZ (CuP) (ISO 24373)							0.05-0.07		Balance	
	bercoweld® K5 (CuSn1)	Cu1898 (ISO 24373) SG-CuSn (1733) ERCu (AWS A5.7-2007)	0.15-0.25			0.15-0.3	0.75-0.9		0.005-0.02		Balance	≤0.5
	bercoweld® S3 (CuSi3Mn1)	Cu6560 (ISO 24373) SG-CuSi3 (DIN 1733) ERCuSi-A (AWS A5.7-2007)	2.8-2.95			0.75-0.95					Balance	≤0.5
	bercoweld® S2 (Comas)	Cu6511 (ISO 24373)	1.7-1.9			0.9-1.1	0.17-0.25		0.008-0.012		Balance	
	bercoweld® K9 (CuAg1)	Cu1897 (ISO 24373) SG-CuAg (DIN 1733)				0.04-0.1			0.01-0.05		Balance	≤0.2
Tin bronzes	bercoweld® B6 (CuSn6P)	Cu5180A (ISO 24373) SG-CuSn6 (DIN 1733) ERCuSn-A (AWS A5.7-2007)					6.0 - 6.6		0.2-0.25		Balance	≤0.5
	bercoweld® BS60 (CuSn6MnSi)	CuZ (CuSn6MnSi) (ISO 24373)	0.2-0.3			0.2-0.35	5.5-6.0				Balance	≤0.5
	bercoweld® B8 (CuSn8P)	Cu5210 (ISO 24373) SG-CuSn6 (DIN 1733) ERCuSn-C (AWS A5.7-2007)					7.6-8.0		0.05-0.1		Balance	≤0.5
	bercoweld® B10 (CuSn10MnSi)	Cu5211 (ISO 24373)	0.2-0.3			0.2-0.35	9.0-10.0				Balance	≤0.5
	bercoweld® B12 (CuSn12P)	Cu5410 (ISO 24373)					12.0-13.0		0.15-0.25		Balance	≤0.5
Aluminium bronzes	bercoweld® A52 (CuAl5Ni2Mn)	Cu6061 (ISO 24373)			4.5-5.0	0.1-0.5				1.6-2.0	Balance	≤0.5
	bercoweld® A8 (CuAl7)	Cu6100 (ISO 24373) SG-CuAl8 (DIN 1733) ERCuAl-A1 (AWS A5.7-2007)			7.5-8.0	0.1-0.3				0.1-0.5	Balance	≤0.5
	bercoweld® A822 (CuAl8Ni2Fe2Mn2)	Cu6327 (ISO 24373) SG-CuAl8Ni2 (DIN 1733)		0.5-2.5	7.0 - 9.5	0.5-2.5				0.5-3.0	Balance	≤0.4
	bercoweld® A10 (CuAl10Fe)	Cu 6180 (ISO 24373) ERCuAl-A2 (AWS 5.7-2007)		≤1.5	8.5-11.0						Balance	≤0.5
	bercoweld® A922 (CuAl8Ni2Fe2Mn2)	Cu6327 (ISO 24373) SG-CuAl8Ni2 (DIN 1733)		1.2-1.5	8.3-8.8	1.7-2.0				2.2-2.5	Balance	≤0.4
	bercoweld® A35 (CuAl9Ni5Fe3Mn2)	Cu6328 (ISO 24373) SG-CuAl9Ni5 (DIN 1733) ERCuNiAl (AWS A5.7-2007)		3.0-4.0	8.5-9.5	0.6-3.5				4.0-5.0	Balance	≤0.5
	bercoweld® A300 (CuMn12Al8Fe3Ni2)	Cu6338 (ISO 24373) SG-CuMn13Al7 (DIN 1733) ERCuMnNiAl (AWS A5.7-2007)		2.0-4.0	7.0-8.5	11.0-14.0				1.5-3.0	Balance	≤0.5
Copper nickel	bercoweld® N10 (CuNi10Fe)	Cu7061 (ISO 24373) SG-CuNi10Fe (DIN 1733)		1.0-1.5		0.6-1.0				10.2-10.7	Balance	≤0.4 Ti 0.1-0.5
	bercoweld® N30 (CuNi30Mn1FeTi)	Cu7158 (ISO 24373) SG-CuNi30Fe (DIN 1733) ERCuNi (AWS A5.7-2007)		0.4-0.7		0.6-1.0				30.7-31.3	Balance	≤0.5 Ti 0.2-0.5
Special	bercoweld® K1 (E-Cu58)	CuZ (Cu) (ISO 24373)									≤99.9	≤0.1
	bercoweld® K2 (Cu-OF1)	CuZ (Cu) (ISO 24373)									≤99.95	≤0.01
	bercoweld® M122 (CuMn12Ni2)	CuZ (CuMn12Ni2) (ISO 24373)				12.0-13.0				2.0-5.0	Balance	≤0.5
	bercoweld® Ms83 (CuZn17)	CuZ (CuZn17) (ISO 24373)		≤0.05							81-84	≤0.2