

Copper alloys selection



■ Pure Copper

Alloy	EN	ASTM	Properties
Cu-ETP	CW004A	C11000	High conductivity
Cu-OF	CW008A	C10200	High conductivity and Weldability
Cu-OFE	CW009A	C10100	High conductivity and Weldability

■ Low-alloyed copper

Alloy	EN	ASTM	Properties
CU-HCP	CW021A	C10300	High conductivity and Weldability
CU-DHP	CW024A	C12200	Weldability

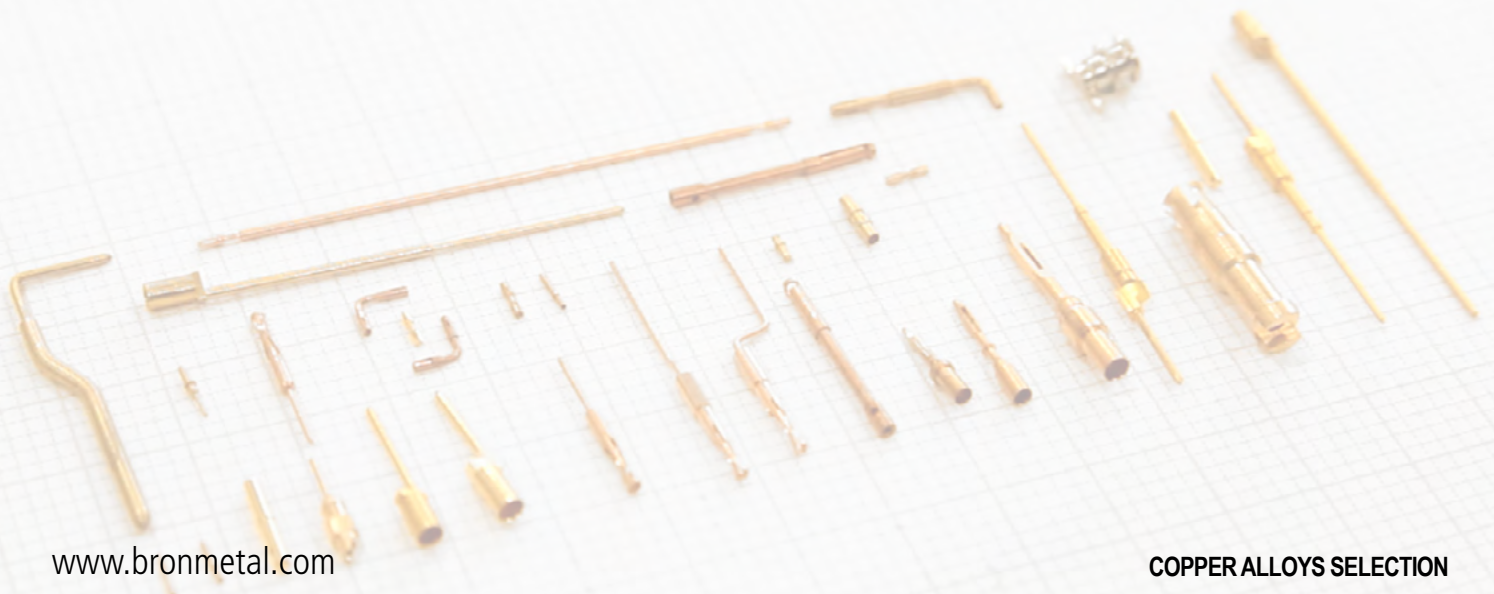
■ Copper alloys

Alloy	EN	ASTM	Properties
CuBe2	CW101C	C17200	High conductivity, strength, thermal conductivity and high degree of wear and corrosion resistance
CuBe2Pb	CW102C	C17300	High conductivity, strength, thermal conductivity and high degree of wear and corrosion resistance
CuCoNiBe	CW103C	-	High resistance and thermal conductivity
CuCo2Be	CW104C	-	High resistance and thermal conductivity
CuCrZr	CW106C	C18150	High resistance and thermal conductivity
CuFe2P	CW107C	C19400	High corrosion resistance and thermal conductivity
CuPb1P	CW113C	C18700	High conductivity Free cutting
CuSP	CW114C	C14700	High conductivity Free cutting
CuTeP	CW118C	C14500	High conductivity Free cutting
CuZr	CW120C	C15000	High resistance and thermal conductivity
WCu / TuCo	-	-	High resistance and thermal conductivity



■ Copper Nickel alloys

Alloy	EN	ASTM	Properties
CuNi1Pb1P	-	C19150 / C19160	High corrosion resistance and machinability
CuNi2Be	CW110C	C17510	High resistance and thermal conductivity
CuNi2Si	CW111C	C70260	Heat and corrosion resistance
CuNi3Si	CW112C	-	Heat and corrosion resistance
CuNi10Fe1Mn	CW352H	C70600	High corrosion resistance
CuNi30Mn1Fe	CW354H	C71500	High corrosion resistance
CuNi7Zn39Mn2Pb3	CW400J	-	Free cutting
CUNi12ZN5Pb1	CW404J	-	Free cutting
CuNi12Zn37Mn6Pb2	CW407J	C79860	Free cutting
CuNi18Z19Pb1	CW408J	C76300	Free cutting
CuNi18Zn20	CW409J	C76400	High corrosion resistance
CuNi2SiCr	-	C18000	High resistance and thermal conductivity
CuNi10P	-	-	High corrosion resistance and weldability
CuNiPb0.6P	-	C19140	Free cutting
CuNi13Zn23Pb1	-	-	High corrosion resistance and weldability
CuNi25Zn12Pb1	-	C79350	Free cutting
CuNi25Zn17	-	C79360	High maleability and weldability



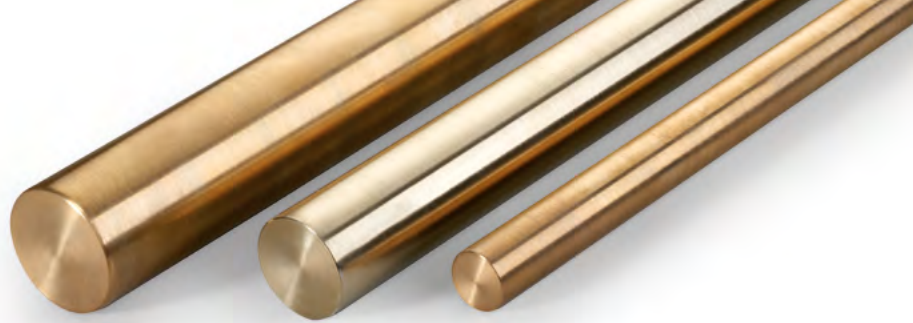


■ Brass Alloys

Alloy	EN	ASTM	Properties
CuZn35Pb1	CW600N	-	High-Speed Free-Cutting
CuZn35Pb2	CW601N	C35000	High-Speed Free-Cutting and Cold Forming
CuZn36Pb2As	CW602N	C35330	Dezincification resistant brass and cold forming
CuZn36Pb3	CW603N	C36000	High-Speed Free-Cutting
CuZn37Pb2	CW606N	C35300	High-Speed Free-Cutting and Cold Forming
CuZn38Pb1	CW607N	C37000	High-Speed Free-Cutting and Cold Forming
CuZn38Pb2	CW608N	C35000	High-Speed Free-Cutting and Cold Forming
CuZn39Pb1	CW611N	-	High-Speed Free-Cutting
CuZn39Pb2	CW612N	C37700	High-Speed Free-Cutting and Hot stamping
CuZn39Pb3	CW614N	C38500	High-Speed Free-Cutting
CuZn40Pb1Al	CW616N	-	High-Speed Free-Cutting and Hot stamping
CuZn40Pb2	CW617N	C37700	High-Speed Free-Cutting and Hot stamping
CuZn40Pb2Al	CW618N	C38000	High-Speed Free-Cutting and Cold Forming
CuZn41Pb1Al	CW620N	C38000	High-Speed Free-Cutting and Cold Forming
CuZn43Pb2Al	CW624N	-	High-Speed Free-Cutting and Hot stamping
CuZn35Pb1.5AlAs	CW625N	-	Dezincification resistant brass and cold forming
CuZn33Pb1.5AlAs	CW626N	-	Dezincification resistant brass and cold forming
CuZn37Mn3Al2PbSi	CW713R	C67400	High resistance complex alloy
CuZn40Mn1Pb1	CW720R	-	Dezincification resistant brass and cold forming
CuZn40Mn1Pb1AlFeSn	CW721R	-	Dezincification resistant brass and cold forming
CuZn40Mn1Pb1FeSn	CW722R	-	High resistance alloy

■ Lead-Free Brass Alloys

Alloy	EN	ASTM	Properties
CuZn30	CW505L	-	Lead-Free and Environment-Friendly Free-Cutting
CuZn36	CW507L	-	Lead-Free and Environment-Friendly Free-Cutting
CuZn37	CW508L	-	Lead-Free and Environment-Friendly Free-Cutting and cold forming
CuZn40	CW509L	-	Lead-Free and Environment-Friendly Free-Cutting and cold forming
CuZn42	CW510L	C285	Lead-Free and Environment-Friendly Free-Cutting
CuZn38As	CW511L	C 2745-3	Lead-Free and Environment-Friendly Free-Cutting and High corrosion resistance
CuZn39Sn1	CW719R	C46400	Naval Brass
CuZn40Mn2Fe1	CW723R	-	Lead-Free and Environment-Friendly Free-Cutting and High corrosion resistance
CuZn21Si3P	CW724R	-	Lead-Free and Environment-Friendly Free-Cutting



■ Bronze Alloys

Alloy	EN	ASTM	Properties
CuSn0,15	CW117C	-	High conductive-Cold forming and corrosion resistance
CuSn6	CW452K	C51900	High conductive-Cold forming and corrosion resistance
CuSn8	CW453K	C52100	High wear and mechanical resistance and Cold forming
CuSn8P	CW459K	C52100	High wear and mechanical resistance and Cold forming
CuSn3Zn9	CW454K	C42500	High conductive-Cold forming and corrosion resistance
CuSn4Pb4Zn4	CW456K	C54400	High mechanical resistance and high speed free cutting
CuSn5Pb1	CW458K	C53400	High wear and mechanical resistance and Cold forming
CuSn7ZnPb	UE7	C93200	High corrosion resistance and high speed free cutting
CuAl11Ni5Fe5	-	C63020	High strength and high wear resistance
CuAl10Ni5Fe4	CW307G	C63000	High strength and high wear resistance
CuAl9Ni4Fe4Mn2	-	C63200	High strength and high wear resistance

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OTHER

Other alloys upon request
Feel free to contact Bronmetal team



INTERNATIONAL BRON METAL, S.A

Bizkaia
BRONMETAL MAIN OFFICE
C/Utxa, 2 • Pol. Ind. Sasine
E-48195 Larrabetzu (Vizcaya)
Tel.: +34 944 731 500
Fax.: +34 944 117 387
info@ibronmetal.com

COMPLEMENTARY FACILITIES
C/Bizkargi, 6 • Pol. Ind. Sarrikola
E-48195 Larrabetzu (Vizcaya)

www.bronmetal.com

Barcelona
C/Marconi, 13
Pol. Ind. Sesrovires
E-08635 Sant Esteve
Sesrovires (Barcelona)
Tel.: +34 937 715 307
Fax.: +34 937 713 866
infob@ibronmetal.com

Madrid
C/Nobel, 2-4
Pol. Ind. San Marcos
E-28906 Getafe (Madrid)
Tel.: +34 916 652 597
Fax.: +34 916 928 674
infom@ibronmetal.com

Valencia
C/Mont Cabrer, 22
Pol. Ind. La Lloma
E-46960 Aldaya
(Valencia)
Tel.: +34 961 517 297
Fax.: +34 961 517 364
infova@ibronmetal.com

México
Av. Laurel, 205
Fracc. Industrial El Vergel
38110 Celaya Guanajuato
(México)
Tel.: +52 461 611 0631
info@ibronmetal.com

info@ibronmetal.com

INTERNATIONAL BRON - METAL GmbH.

Alemania
International
Bron-Metal GMBH
Robert-Zapp-Straße 5a
40880 Ratingen DEUTSCHLAND
Tel.: +49 2102-7142515
Fax.: +49 2102-7142518
info@bronmetal.de

info@bronmetal.de

www.bronmetal.de