

DIN EN 1982:2008-08 (E)

Copper and copper alloys - Ingots and castings

Contents		Page
Foreword		5
Introduction		6
1 Scope		7
2 Normative references		7
3 Terms and definitions		7
4 Designations		8
5 Ordering information		9
6 Requirements		11
7 Sampling and testing rates		13
8 Test methods		15
9 Declaration of conformity and inspection documentation		18
10 Marking, labelling, packaging		18
Annex A (informative) Recommended code of practice for the ordering and supply of copper and copper alloy castings		40
Annex B (informative) Optional supplementary inspection procedures for ingots and castings		42
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of the EU Pressure Equipment Directive (PED) 97/23/EC		45
Bibliography		46
Tables a) Tables 1 and 2: Copper and copper-chromium alloy Table 1 -- Cu-C (CC040A)		19
Table 2 -- CuCr1-C (CC140C)		19
b) Tables 3 to 16: Copper-zinc alloys Table 3 -- CuZn33Pb2-B (CB750S) and CuZn33Pb2-C (CC750S)		20
Table 4 -- CuZn33Pb2Si-B (CB751S) and CuZn33Pb2Si-C (CC751S)		20
Table 5 -- CuZn35Pb2Al-B (CB752S) and CuZn35Pb2Al-C (CC752S)		21
Table 6 -- CuZn37Pb2Ni1AlFe-B (CB753S) and CuZn37Pb2Ni1AlFe-C (CC753S)		21
Table 7 -- CuZn39Pb1Al-B (CB754S) and CuZn39Pb1Al-C (CC754S)		22
Table 8 -- CuZn39Pb1AlB-B (CB755S) and CuZn39Pb1AlB-C (CC755S)		22
Table 9 -- CuZn15As-B (CB760S) and CuZn15As-C (CC760S)		23

Table 10 -- CuZn16Si4-B (CB761S) and CuZn16Si4-C (CC761S)	23
Table 11 -- CuZn25Al5Mn4Fe3-B (CB762S) and CuZn25Al5Mn4Fe3-C (CC762S)	24
Table 12 -- CuZn32Al2Mn2Fe1-B (CB763S) and CuZn32Al2Mn2Fe1-C (CC763S)	24
Table 13 -- CuZn34Mn3Al2Fe1-B (CB764S) and CuZn34Mn3Al2Fe1-C (CC764S)	25
Table 14 -- CuZn35Mn2Al1Fe1-B (CB765S) and CuZn35Mn2Al1Fe1-C (CC765S)	25
Table 15 -- CuZn37Al1-B (CB766S) and CuZn37Al1-C (CC766S)	26
Table 16 -- CuZn38Al-B (CB767S) and CuZn38Al-C (CC767S)	26
c) Tables 17 to 21: Copper-tin alloys Table 17 -- CuSn10-B (CB480K) and CuSn10-C (CC480K)	27
Table 18 -- CuSn11P-B (CB481K) and CuSn11P-C (CC481K)	27
Table 19 -- CuSn11Pb2-B (CB482K) and CuSn11Pb2-C (CC482K)	28
Table 20 -- CuSn12-B (CB483K) and CuSn12-C (CC483K)	28
Table 21 -- CuSn12Ni2-B (CB484K) and CuSn12Ni2-C (CC484K)	29
d) Tables 22 to 30: Copper-tin-lead alloys Table 22 -- CuSn3Zn8Pb5-B (CB490K) and CuSn3Zn8Pb5-C (CC490K)	29
Table 23a -- CuSn5Zn5Pb2-B (CB499K) and CuSn5Zn5Pb2-C (CC499K)	30
Table 23b -- CuSn5Zn5Pb5-B (CB491K) and CuSn5Zn5Pb5-C (CC491K)	30
Table 24 -- CuSn7Zn2Pb3-B (CB492K) and CuSn7Zn2Pb3-C (CC492K)	31
Table 25 -- CuSn7Zn4Pb7-B (CB493K) and CuSn7Zn4Pb7-C (CC493K)	31
Table 26 -- CuSn6Zn4Pb2-B (CB498K) and CuSn6Zn4Pb2-C (CC498K)	32
Table 27 -- CuSn5Pb9-B (CB494K) and CuSn5Pb9-C (CC494K)	32
Table 28 -- CuSn10Pb10-B (CB495K) and CuSn10Pb10-C (CC495K)	33
Table 29 -- CuSn7Pb15-B (CB496K) and CuSn7Pb15-C (CC496K)	33
Table 30 -- CuSn5Pb20-B (CB497K) and CuSn5Pb20-C (CC497K)	34
e) Tables 31 to 35: Copper-aluminium alloys Table 31 -- CuAl9-B (CB330G) and CuAl9-C (CC330G)	34
Table 32 -- CuAl10Fe2-B (CB331G) and CuAl10Fe2-C (CC331G)	35
Table 33 -- CuAl10Ni3Fe2-B (CB332G) and CuAl10Ni3Fe2-C (CC332G)	35
Table 34 -- CuAl10Fe5Ni5-B (CB333G) and CuAl10Fe5Ni5-C (CC333G)	36
Table 35 -- CuAl11Fe6Ni6-B (CB334G) and CuAl11Fe6Ni6-C (CC334G)	36
f) Table 36: Copper-manganese-aluminium alloy Table 36 -- CuMn11Al8Fe3Ni3-C (CC212E)	37
g) Tables 37 to 40: Copper-nickel alloys Table 37 -- CuNi10Fe1Mn1-B (CB380H) and CuNi10Fe1Mn1-C (CC380H)	37
Table 38 -- CuNi30Fe1Mn1-B (CB381H) and CuNi30Fe1Mn1-C (CC381H)	38
Table 39 -- CuNi30Cr2FeMnSi-C (CC382H)	38
Table 40 -- CuNi30Fe1Mn1NbSi-C (CC383H)	39
Table ZA.1 -- Correspondence between this European Standard and Directive 97/23/EC	45