



Below mentioned program overview gives an impression of the possibilities of GNS. Given the enormous diversity in dimensions there is only mention made of available qualities/models.

Are you curious about the possibilities? Do not hesitate to contact us. We are always willing to help and would like to think along with you about your material needs. Our options will surprise you.




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## 1 Copper and brass; former and current description

### 1.1 Copper:

Material-number (EN)	Description acc DIN (expired)	Shape <sup>1</sup>	DIN std (expired)	Description acc EN	EN standard (current)	ISO	Description acc BS (expired)
<b>COPPER oxygen containing</b>							
2.0060	E-Cu57	  	40500-1		13599		
			40500-3	CW004A	13600	Cu-ETP	C101
			40500-2		13601		
<b>COPPER oxygen free</b>							
2.0090	SF-Cu	  	17670		1652		
			17672	CW024A	12163/ 12164/ 12165/ 12167	Cu-DHP	C106
			17671		12449		
2.0070	SE-Cu	  	17670		1652		
			17672	CW020A	12163/ 12164/ 12165/ 12167	Cu-HCP	-
			17671		12449		
2.0040	OF-Cu	  	17670		1652		
			17672	CW008A	12163/ 12164/ 12165/ 12167	Cu-OF	C103
			17671		12449		
<b>COPPER low alloy</b>							
2.1293	CuCrZr	  	17670		1652		
			17672	CW106C	12163/ 12164/ 12165/ 12167	CuCr1Zr	CC102A2
			17671		12449		
-	CuCo1Ni1Be	  	17670		1652		
			17672	CW103C	12163/ 12164/ 12165/ 12167	CuCo1Ni1Be	C112
			17671		12449		
2.1285	CuCo2Be	  	17670		1652		
			17672	CW104C	12163/ 12164/ 12165/ 12167	CuCo2Be	C112
			17671		12449		
2.1247	CuBe2	  	17670		1652		
			17672	CW101C	12163/ 12164/ 12165/ 12167	CuBe2	CB101
			17671		12449		
2.1546	CuTeP	  	17670		1652		
			17672	CW118C	12163/ 12164/ 12165/ 12167	CuTeP	C109
			17671		12449		
2.0855	CuNi2Si	  	17670		1652		
			17672	CW111C	12163/ 12164/ 12165/ 12167	CuNi2Si	CC102A3
			17671		12449		






<sup>1</sup>  Plaat/ Blech/ Sheet    ● Stafmateriaal/ Stabstahl/ Bar    ○ Buis/ Rohr/ Tube    ▬ Profielen/ Profielstahl/ Sections









## 1.2 Brass:

Material-number (EN)	Description acc DIN (expired)	Shape <sup>1</sup>	DIN std (expired)	Description acc EN	EN standard (current)	ISO	Description acc BS (expired)
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### COPPER ZINC alloys (brass)

2.0240	CuZn15 (Ms85)		17670	CW502L	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn15	CZ102
			17672				
			17671				
			17674				
2.0265	CuZn30 (Ms70)		17670	CW505L	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn30	CZ106
			17672				
			17671				
			17674				
2.0335	CuZn36 (Ms64)		17670	CW507L	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn37	CZ108
			17672				
			17671				
			17674				
2.0321	CuZn37 (Ms63)		17670	CW508L	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn37	CZ108
			17672				
			17671				
			17674				
2.0360	CuZn40 (Ms60)		17670	CW509L	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn40	CZ109
			17672				
			17671				
			17674				

### COPPER-ZINC-LEAD alloys (brass)

2.0331	CuZn36Pb1,5 (Ms63Pb)		17670	CW600N	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn35Pb1	CZ119
			17672				
			17671				
			17674				
-	CuZn36Pb2 As		17670	CW602N	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	-	CZ132
			17672				
			17671				
			17674				
2.0371	CuZn38Pb1,5 (Ms60Pb)		17670	CW608N	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn37Pb2	CZ128
			17672				
			17671				
			17674				
2.0380	CuZn39Pb2 (Ms58)		17670	CW612N	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn38Pb2	CZ120
			17672				
			17671				
			17674				
2.0401	CuZn39Pb3 (Ms58)		17670	CW614N	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn39Pb3	CZ121Pb3
			17672				
			17671				
			17674				
2.0402	CuZn40Pb2		17670	CW617N	12163/ 12164/ 12165/ 12167 12449 12167/ 12168	CuZn40Pb2	CZ122
			17672				
			17671				
			17674				





































<sup>1</sup>  Plaat/ Blech/ Sheet    ● Stafmateriaal/ Stabstahl/ Bar    ○ Buis/ Rohr/ Tube    ▬ Profielen/ Profielstahl/ Sections




## 1.2 Brass (continued):

Material-number (EN)	Description acc DIN (expired)	Shape <sup>1</sup>	DIN std (expired)	Description acc EN	EN standard (current)	ISO	Description acc BS (expired)
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### COPPER-ZINC alloys (*Sondermessing*)

2.0460	CuZn20Al2	   	17670	CW702R	1652	CuZn20Al 2 As	CZ110
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		
2.0470	CuZn28Sn1	   	17670	CW706R	1652	CuZn28Sn 1 As	-
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		
2.0490	CuZn31Si1	   	17670	CW708R	1652	CuZn31Si 1	-
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		
2.0500	CuZn23Al6	   	17670	CW704R	1652	CuZn23Al 6	-
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		
2.0530	CuZn38Sn1	   	17670	CW717R	1652	CuZn38Sn 1 As	-
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		
2.0540	CuZn35Ni2 (SoMs59)	   	17670	CW710R	1652	-	-
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		
2.0550	CuZn40Al2 (SoMs58Al2)	   	17670	CW713R	1652	CuZn40Al2	CZ135
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		
2.0561	CuZn40Al1	   	17670	CW718R	1652	CuZn39Mn1 AlPbSi	-
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		
2.0572	CuZn40Mn2	   	17670	CW732R	1652	CuZn40Mn2 FE1	-
			17672		12163/ 12164/ 12165/ 12167		
			17671		12449		
			17674		12167/ 12168		

<sup>1</sup>  Plaat/ Blech/ Sheet    ● Stafmateriaal/ Stabstahl/ Bar    ○ Buis/ Rohr/ Tube    ▬ Profielen/ Profielstahl/ Sections



## 2 Copper alloys; former and current description

### 2.1 Phosphor bronze:

Material-number (EN)	Description acc DIN (expired)	Shape <sup>1</sup>	DIN std (expired)	Description acc EN	EN standard (current)	ISO	Description acc BS (expired)
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#### COPPER-TIN alloys Tin bronze (phosphor bronze)





2.1020	CuSn6 (SnBz6)	  	17670		1652		
			17672	CW452K	12163/ 12164/ 12165/ 12167	CuSn6	PB103
			17671		12449		
2.1030	CuSn8 (SnBz8)	  	17670		1652		
			17672	CW453K	12163/ 12164/ 12165/ 12167	CuSn8	PB104
			17671		12449		
-	CuSn8 P	  	17670		1652		
			17672	CW459K	12163/ 12164/ 12165/ 12167	CuSn8P	-
			17671		12449		
-	CuSn4Pb4Zn4	  	17670		1652		
			17672	CW456K	12163/ 12164/ 12165/ 12167	CuSn 4 Pb 4 Zn 4	-
			17671		12449		

### 2.2 New silver:

Material-number (EN)	Description acc DIN (expired)	Shape <sup>1</sup>	DIN std (expired)	Description acc EN	EN standard (current)	ISO	Description acc BS (expired)
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#### COPPER-NICKEL-ZINC alloys (new silver)

2.0730	CuNi12Zn24 (Ns6512)	  	17670		1652		
			17672	CW403J	12163/ 12164/ 12165/ 12167	CuNi12Zn24	NS104
			17671		12449		
2.0771	CuNi7Zn39Mn 5Pb3	  	17670		1652		
			17672	CW400J	12163/ 12164/ 12165/ 12167	CuNi7Zn39Pb3 Mn2	-
			17671		12449		

<sup>1</sup>  Plaat/ Blech/ Sheet     Stafmateriaal/ Stabstahl/ Bar     Buis/ Rohr/ Tube     Profielen/ Profielstahl/ Sections



## 2.3 Copper-Nickel alloys:

Material-number (EN)	Description acc DIN (expired)	Shape <sup>1</sup>	DIN std (expired)	Description acc EN	EN standard (current)	ISO	Description acc BS (expired)
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### COPPER-NICKEL alloys





2.0872	CuNi10Fe1Mn	    	17670		1652			
			17672		12163/ 12164/ 12165/ 12167			
			17671	CW352	12449		CuNi10Fe1Mn	CN102
			17672		12163/ 12164/ 12165/ 12167			
			17671		12449			

## 2.4 Aluminium bronze:

Material-number (EN)	Description acc DIN (expired)	Shape <sup>1</sup>	DIN std (expired)	Description acc EN	EN standard (current)	ISO	Description acc BS (expired)
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### COPPER-ALUMINIUM alloys (aluminium bronze)

2.0918	CuAl5As	   	17670		1652		
			17672	CW300G	12163/ 12164/ 12165/ 12167	CuAl5As	-
			17671		12449		
2.0920	CuAl8	   	17670		1652		
			17672	-	12163/ 12164/ 12165/ 12167	CuAl8	-
			17671		12449		
-	CuAl7Si2	   	17670		1652		
			17672	CW302G	12163/ 12164/ 12165/ 12167	CuAl7Si2	-
			17671		12449		
2.0932	CuAl8Fe3	   	17670		1652		
			17672	CW303G	12163/ 12164/ 12165/ 12167	CuAl8Fe3	CA106
			17671		12449		
2.0936	CuAl10Fe3Mn2	   	17670		1652		
			17672	CW306G	12163/ 12164/ 12165/ 12167	CuAl10Fe3Mn 2	-
			17671		12449		
2.0960	CuAl9Mn2	   	17670		1652		
			17672	-	12163/ 12164/ 12165/ 12167	CuAl9Mn2	-
			17671		12449		
2.0966	CuAl10Ni5Fe4	   	17670		1652		
			17672	CW307G	12163/ 12164/ 12165/ 12167	CuAl10Ni5Fe4	CA104
			17671		12449		
2.0971	CuAl9Ni3Fe2	   	17670		1652		
			17672	CW304G	12163/ 12164/ 12165/ 12167	CuAl9Ni3Fe2	-
			17671		12449		
2.0978	CuAl11Ni6Fe5	   	17670		1652		
			17672	CW308G	12163/ 12164/ 12165/ 12167	CuAl11Ni6Fe5	-
			17671		12449		

<sup>1</sup>  Plaat/ Blech/ Sheet     Stafmateriaal/ Stabstahl/ Bar     Buis/ Rohr/ Tube     Profielen/ Profielstahl/ Sections

Missing grades on request