wieland concast

Extruded or cast and drawn alloys

There is power in the right choice

Wieland Concast today means value for the future. By selecting us as your supplier of extruded or cast and drawn alloys, you are creating immediate value for your business—value that you can pass on to your customers.

Wieland Concast is the right choice to provide you the extruded or cast and drawn alloy quality, service, and value you need to make your business a success.

Products

Standard stocked			
C14500	C51000	C54400	C63000
C63020	C64200	C67300	C72900

Also available			
C23000	C26000	C31400	C31600
C52100	C62400	C65100	C67400
C67410	C69300	C69400	

Wieland Concast extruded or cast and drawn products are characterized by:

- More consistent tolerances
- Increased mechanical properties
- Improved machinability and productivity

General information

Copper alloy UNS no.	ASTM spec	AMS spec	Tempers							Product description	Round size range	Hex/oct size range
C14500*	B301				H02		H04			Tellurium copper	0.375 to 2.75	
C23000	B927			H01	H02		H04			Red brass	0.375 to 2.5	
C26000	B927			H01	H02		H04			Cartridge brass	0.375 to 2.5	0.375 to 2.0
C31400	B140				H02		H04			Leaded commercial bronze	0.375 to 2.0	0.375 to 2.0
C31600	B140				H02		H04			Leaded commercial bronze[1]	0.375 to 2.0	0.375 to 2.0
C51000*	B139	4625					H04		H08	Phosphor bronze	0.375 to 2.5	0.375 to 2.0
C52100	B139						H04			Phosphor bronze	0.375 to 2.5	0.375 to 2.0
C54400*	B139						H04			Phosphor bronze	0.375 to 2.75	0.375 to 2.0
C62400	B150		HR50							Aluminum bronze	0.5 to 3.0	
C63000*	B150	4640	HR50							Nickel-aluminum bronze	0.375 to 10.0	0.5 to 2.0
C63020*	B150	4590	TQ50							Nickel-aluminum bronze	0.75 to 4.0	
C64200*	B150	4634	HR50							Aluminum bronze	0.1875 to 6.0	0.5 to 2.0
C65100	B98				H02		H04	H06		Low-silicon bronze	0.375 to 2.0	0.375 to 2.0
C67300*[2]					H02					Manganese bronze	0.562 to 3.0	
C67400[2]										Manganese bronze	0.75 to 3.0	0.375 to 2.0
C67410										Manganese bronze	0.75 to 3.0	0.375 to 2.0
C69300	B371				H02					Lead-free brass	0.125 to 2.5	0.375 to 1.0
C69400	B371						H04			Silicon red brass	0.375 to 2.0	0.375 to 2.0
C72900[3]		4596								Copper nickel-tin bronze	0.75-6.75	
C72900[3]		4597								Copper nickel-tin bronze	0.75-2.0	
C72900[3]		4598								Copper nickel-tin bronze	4.5-8.56	

* Standard-stocked alloy. [1](Nickel-bearing). [2]SAE J463 specification. [3]Hardiall® C72900 produced by Lebronze alloys.

Chemical composition

Copper alloy UNS no.	Cu (%)	Pb (%)	Sn (%)	Zn (%)	Fe (%)	P (%)	Ni (%)	Al (%)	Mn (%)	Si (%)
C14500[A]	99.90 min					0.004-0.012				
C23000	84.00-86.00	0.05		Rem.	0.05					
C26000	68.50-71.50	0.07		Rem.	0.05					
C31400	87.50-90.50	1.30-2.50		Rem.	0.10		0.70			
C31600	87.50-90.50	1.30-2.50		Rem.	0.10	0.04-0.10	0.70-1.20			
C51000	Rem.	0.05	4.20-5.80	0.30	0.10	0.03-0.35				
C52100	Rem.	0.05	7.00-9.00	0.20	0.10	0.03-0.35				
C54400	Rem.	3.00-4.00	3.50-4.50	1.50-4.50	0.10	0.01-0.50				
C62400	Rem.		0.20		2.00-4.50			10.00-11.50	0.30	0.25
C63000	Rem.[1]		0.20	0.30	2.00-4.00		4.00-5.50[2]	9.00-11.00	1.50	0.25
C63020[B]	Rem.	0.03	0.25	0.30	4.00-5.50		4.20-6.00	10.00-11.00	1.50	0.15
C64200[C]	Rem.[1]	0.05	0.20	0.50	0.30		0.25[2]	6.30-7.60	0.10	1.50-2.20
C65100	Rem.[1]	0.05		1.50	0.80				0.70	0.80-2.00
C67300	58.00-63.00[1]	0.40-3.00	0.30	Rem.	0.50		0.25[2]	0.25	2.00-3.50	0.50-1.50
C67400	57.00-60.00[1]	0.50	0.30	Rem.	0.35		0.25[2]	0.50-2.00	2.00-3.50	0.50-1.50
C67410	55.00-59.00[1]	0.80	0.50	Rem.	1.00		2.00	1.30-2.30	1.00-2.40	0.70-1.30
C69300	73.00-77.00[1]	0.02[3]-0.09	0.20	Rem.	0.10	0.04-0.15	0.10		0.10	2.70-3.40
C69400	80.00-83.00[1]	0.30		Rem.	0.20					3.50-4.50
C72900[D]	Rem.	0.02	7.50-8.50	0.50	0.50		14.50-15.50[2]		0.30	

[1]Cu value includes Ag. [2]Ni value includes Co. [3]Pb content is greater than 0.02%. [A]Chemical requirements for other elements: Te 0.40-0.70%.
[B]Chemical requirements for other elements: Co 0.20%, max and Cr 0.05%, max. [C]Chemical requirements for other elements: As 0.09%, max.
[D]Chemical requirements for other elements: Cb 0.10%, max and Mg 0.15%, max.

Note: Unless otherwise noted, single values represent maximums.

Wieland Concast | 14315 State Route 113 | Wakeman, OH 44889
P 440-965-4455 | sales.concast@wieland.com | concast.com