

# Oil and gas

Alloys characterized by corrosion, wear, and impact resistance as well as the high-strength characteristics that are required for the oil and gas industry.

## Products

### Standard stocked

C63000	C63020	C64200	C72900
C86300	C93200	C95400	C95500
C95510			

### Also available

C95400HT	C95410	C95500HT	C95520HT
C95800	C96900HT		

## Wieland Concast certifications

- AS9100:2016-certified quality management system
- ISO 9001:2015-certified quality management system

## Empowering the future of energy

Wieland Concast's commitment to oil and gas and other energy-related sectors can be seen in our experience and unwavering dedication to excellence in service and quality. We offer a diverse range of products that are the driving force behind mission-critical applications and end uses—including bearings, bushings, seals, and pump components.



# Oil and gas-related alloy properties

## General information

Copper alloy UNS no.	Material description	Applications
C63000*, C63020*	Nickel-aluminum bronze	Bearings, bolts, bushings, cams, fittings, gears, high-strength clamps, high-strength machine parts, hooks, hydraulic bushings, hydraulic cylinder parts, insert bearings, large valve stems, machine parts, machine tool bearings, marine hardware, nuts, propellers, pump fixtures, pump parts, pumps, roll neck bearings, shafting, spur gears, structural members, thrust washers, trunion bearings, valve components
C64200*, C95400*, C95400HT, C95410	Aluminum bronze	
C72900*†, C96900HT	Copper nickel-tin	
C86300*	Manganese bronze	
C93200*	Leaded tin bronze	
C95500*, C95500HT, C95510*, C95520HT, C95800	Nickel-aluminum bronze	

\*standard-stocked alloy. †Wieland Concast is a North American supplier of Hardial® C72900 produced by Lebronze alloys.

Chemical composition															
Copper alloy UNS no.	Cu (%)	Pb (%)	Sn (%)	Zn (%)	Fe (%)	P (%)	Ni (%)	Al (%)	Mg (%)	Mn (%)	S (%)	Sb (%)	Si (%)	Cb (%)	Nb (%)
C63000	remain.		0.20	0.30	2.00-4.00		4.00-5.50	9.00-11.00		1.50			0.25		
C63020	remain.	0.03	0.25	0.30	4.00-5.50		4.20-6.00	10.00-11.00		1.50			0.15		
C64200	remain.	0.05	0.20	0.50	0.30		0.25	6.30-7.60		0.10			1.50-2.20		
C72900*	remain.	0.02	7.50-8.50	0.50	0.50		14.50-15.50		0.15	0.30				0.10	
C86300	60.00-66.00	0.20	0.20	22.00-28.00	2.00-4.00		1.00	5.00-7.50		2.50-5.00					
C93200	81.00-85.00	6.00-8.00	6.30-7.50	2.00-4.00	0.20	0.15	1.00	0.005			0.08	0.35	0.005		
C95400 C95400HT	83.00 min				3.00-5.00		1.50	10.00-11.50		0.50					
C95410	60.00-66.00				3.00-5.00		1.50-2.50	10.00-11.50		0.50					
C95500 C95500HT	60.00-66.00				3.00-5.00		3.00-5.50	10.00-11.50		3.50					
C95510	78.00 min		0.20	0.30	2.00-3.50		4.50-5.50	9.70-10.90		1.50					
C95520HT	74.50 min	0.03	0.25	0.30	4.00-5.50		4.20-6.00	10.50-11.50		1.50	0.20		0.15		
C95800		0.03			3.50-4.50		4.00-5.00	8.50-9.50		0.80-1.50			0.10		
C96900HT		0.02	7.50-8.50	0.50			14.50-15.50		0.15	0.05-0.30			0.30		0.10

\* (AMS 4596, 4597, 4598)

Note: Unless otherwise noted, single values represent maximums. See Wieland Concast website for more detailed chemical information.

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