

## Aluminiumbronze | Round Bars



Alloy	Cu Al10 Ni5 Fe 4, CW307G		
Method of Manufacture	extruded & drawn		
Specification	EN 12163		
Tolerance	DIN 1756, h11		
	Ø 8-10 mm +0/-0.09 mm		
	Ø 11-18 mm +0/-0.11 mm		
	Ø 19-30 mm +0/-0.13 mm		
	Ø 31-50 mm +0/-0.16 mm		
	Ø 51-70 mm +0/-0.19 mm		
Temper	R740S, therm. stress relieved		
Machinability	moderate, similar to steel of same hardness		
Hot Working	good		
Cold Working	not good, only after soft annealing		
Corrosion Resistance	very good versus most media, incl. sea water		
REACH	no obligations		
RoHS	conformal		

	Mechanical Properties					
	Tensile strength $R_{\scriptscriptstyle m}$	Yield stress R <sub>p 0,2</sub>	Elongation A	Hardness HB		
М		as obtained				
R68	0 ≥ 680 N/mm²	≥ 320 N/mm <sup>2</sup>	≥ 10%			
H17	0			170-210		
R74	0 ≥ 740 N/mm²	≥ 400 N/mm <sup>2</sup>	≥ 8 %			
H20	0			≥ 200		

High strength even at higher temperatures up to approx. 400°C. High fatigue strength even when exposed to corrosion. Resistant to neutral and acid, watery media as well as seawater. Good resistance to scaling, erosion and cavitation. Very high wear resistance. Good sliding properties in conjunction with mating material with hard surfaces and perfect lubrication. Plates for condenser and heat exchanger sheets. Shafts, screws, wear parts, control parts for hydraulics, high-pressure steam fittings. Mechanically and chemically stressed parts in mechanical engineering, shipbuilding and mining.

## Chemical Composition Cu Rest Al 8.5-11.0% Ni 4.0-6.0% Fe 3.0-5.0% Impurities, max.: Mn 1.0%, Pb 0.05%, Si 0.2%, Sn 0.1%, Zn 0.4%,

## **Comparable Specifications**

other 0.2%

Cu Al 10 Ni 5 Fe 4, 2.0966, DIN 17 665 C 63 200, C 63 000 UNS CA104, BS 2872, 2874, 2875

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