

Aluminiumbronze | Round Bars



Alloy	Cu Al 10 Ni 5 Fe 4, CW307G			
Method of Manufacture	extruded only			
Specification	EN 12 163			
Tolerance	class A			
	Ø 19-30 mm +/-0.30 mm			
	Ø 31-50 mm +/-0.60 mm			
	Ø 51-80 mm +/-0.70 mm			
	Ø 81-96 mm +/-1.0 mm			
	Ø 102-162 mm variable, please ask			
Temper	M, mostly R680			
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 Proper	Mechanical Properties					
	Tensile strengt R _m	h Yield stress R _{p 0,2}	Elongation A	Hardness HB			
М		as obtained					
R68	80 ≥ 680 N/mm ²	≥ 320 N/mm²	≥ 10%				
H1:	70			170-210			
R74	40 ≥ 740 N/mm ²	≥ 400 N/mm ²	≥ 8 %				
H20	00			≥ 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%, other 0.2%

Comparable Specifications

Cu Al 10 Ni 5 Fe 4, 2.0966, DIN 17 665 C 63 200, C 63 000 UNS CA 104, BS 2872, 2874, 2875

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