

Aluminiumbronze | Flat and Square Bars



Alloy	Cu Al 10 Ni 5 Fe 4, CW307G		
Method of Manufacture	extruded only		
Specification	EN 12 167		
Tolerance	only plus tolerance, guideline, deviations possible		
	straightness up to 4 mm/m		
for widths ≤ 30 mm:	width +0.7/-0 mm, thickness +0.7/-0 mm		
for widths 40-55 mm:	width +1.3/-0 mm, thickness +0.9/-0 mm		
for widths 60-120 mm:	width $+2.4/-0$ mm, thickness $+1.0$ to $+2.0/-0$ mm		
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 Pro	lechanical Properties					
	Tensile str	ength Yield stres	Elongation	n Hardness HB			
М		as obtained					
R68	≥ 680 N/m	$1 \text{m}^2 \geq 320 \text{ N/m}$	$m^2 \geq 10\%$				
H17	70			170-210			
R74	10 ≥ 740 N/m	im² ≥ 400 N/m	nm² ≥ 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 Al10 Ni 5 Fe4, 2.0966, DIN 17 665 C 63 200, C 63 000 UNS CA 104, BS 2872, 2874, 2875

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