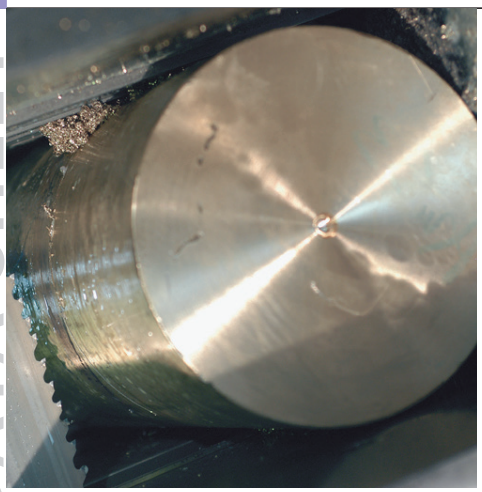
DATA SHEET

Aluminiumbronze | Round bars



Alloy	Cu Al10 Fe5 Ni5-C, CC333G
Method of Manufacture	≤ Ø 162 mm continuous cast ≥ Ø 172 mm cast & premachined
Specification	EN 1982
Tolerance	≤ Ø 97 mm +1/-0 mm | ≥ Ø 102 mm +2/-0 mm
Temper	GC
Machinability	moderate, similar to steel of same hardness
Hot Working	good
Wear Resistance	very good
Pressure Tightness	very good
Corrosion Resistance	very good versus most media, incl. sea water
REACH	no obligations
RoHS	conformal

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p\,0,2}$	Elongation A	Hardness HB
GC	≥ 650 N/mm²	≥ 280 N/mm²	≥ 13 %	≥ 150
GZ	≥ 650 N/mm²	≥ 280 N/mm²	≥ 13 %	≥ 150
GM	≥ 650 N/mm²	≥ 280 N/mm²	≥ 7 %	≥ 150
GS	≥ 600 N/mm²	≥ 250 N/mm²	≥ 13 %	≥ 140

Chemical Composition

Cu 76.0 - 83.0 %
Al 8.5 - 10.5 %
Ni 4.0 - 6.0 %
Fe 4.0 - 5.5 %

Impurities, max.:
Mn 3.0 %, Pb 0.03 %, Si 0.1 %, Sn 0.1 %, Zn 0.5 %, Bi 0.01 %, Cr 0.05 %, Mg 0.05 %

Construction material with high strength values, resistant in cold and even hot seawater. Very good thermal stability. Very good fatigue strength in air and seawater. Highly resistant to cavitation and corrosion, highly stressable with good wear resistance. Good lubrication is required when there is sliding stress. Very good pressure tightness. Very good weldability. Highly stressed slide bearings and worm rims. Worm and helical wheels at the highest gear tooth pressures. High-pressure steam fittings, fittings for aggressive waters, pump housings.

Comparable Specifications

Cu Al10 Ni, 2.0975, DIN 1714
C 95 800, C 95 500 UNS
AB 2, BS 1400

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