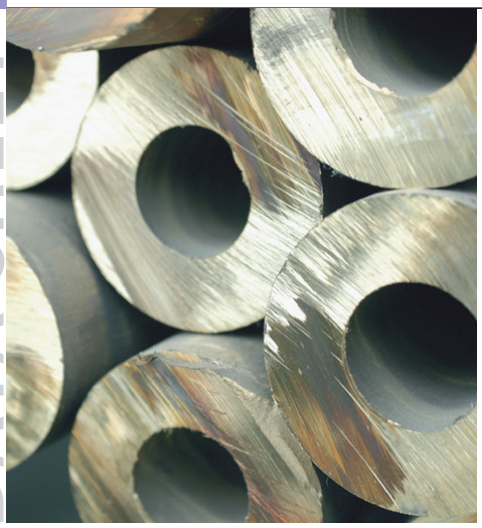
DATA SHEET

Aluminiumbronze | Hollows



Alloy	Cu Al11 Fe 6 Ni 6-C-GC, CC334G
Method of Manufacture	GC, continuous cast
Specification	EN 1982
Tolerance	o.d. +1/-0 mm, i.d. -1,5/+0 mm guideline, deviations possible
Temper	as GZ
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
GZ	≥ 750 N/mm²	≥ 380 N/mm²	≥ 5 %	≥ 185
GM	≥ 750 N/mm²	≥ 380 N/mm²	≥ 5 %	≥ 185
GS	≥ 680 N/mm²	≥ 320 N/mm²	≥ 5 %	≥ 170

Chemical Composition

Cu 72.0 - 82.5 %
Al 10.0 - 12.0 %
Ni 4.0 - 7.5 %
Fe 4.0 - 7.0 %

Impurities, max.:
Mn 2.5 %, Pb 0.05 %, Si 0.1 %, Sn 0.2 %, Zn 0.5 %, Mg 0.05 %

Like Cu Al10 Fe5 Ni5-C, but with higher demands on cavitation and/or wear resistance. Chemical industry, shipbuilding.

Comparable Specifications

Cu Al 11 Ni, 2.0980, DIN 1714

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