CUPRAL 2

Chemical Composition

Al	Fe	Mn	Ni	Cu
9-11	2.5-3.5	max 1	max 1	rest

Code

DIN:2.0936, EN: CW306G, CuAl10Fe, UNS No: C62400

Material Properties

Medium hardness, mostly used Aluminum Bronze for all applications requiring wear resistance, fatigue resistance together with ductility, toughness and good sliding properties.

Application Area

Bearings, bushings, gears, worm wheels sleeves, guides, wear plates, screw nuts, slippers, wedges, skids, valve seats and guides, gibs and slides.

Heat Treatment

Not necessary. If there is intensive machining, stress relieving is recommended.

Mechanical Properties

Hardness	HB	140-180
Tensile strength	N/mm²	500-650
Yield strength	N/mm²	180-280
Elongation L=5D	%	14
Modulus of elasticity (20 °C)	kN/mm²	117

Physical Properties

Electrical conductivity	MS/m	7
Coefficient of thermal expansion (273 - 573 K)	10-6 /K	16.2
Thermal conductivity (20 °C)	(W/mK)	63
Density	(g/cm³)	7.45