

CUPRAL 10

Chemical Composition	Al	Fe	Mn	Co	Cu
	13.8-14.3	4.7-5.3	maks.2.5	max.1	rest

Code

Material Properties The hardest aluminum bronze. Good friction properties with a hardness and excellent compressive strength. Machining should be done carefully.

Application Area Deep-drawing dies of stainless steel, tube and pipe forming and welding rolls.

Heat Treatment If there is intensive machining, stress relieving is recommended.

Mechanical Properties	Hardness	HB	380-400
	Tensile strength	N/mm ²	600-750
	Yield strength	N/mm ²	400-500
	Elongation (L= 5D)	N/mm ²	0
	Modulus of elasticity (20 °C)	GPa	120

Physical Properties	Electrical conductivity	MS/m	4.5
	Coefficient of thermal expansion (273 - 573 K)	10 ⁻⁶ /K	15
	Thermal conductivity(20 °C)	W/mK	50
	Density	g/cm ³	7.25
