

CUPRAL 5M

Chemical Composition	Al	Fe	Ni	Mn	Cu
	10-11	4-5	4-6	max.1.5	rest

Code UNS No: 63020

Material Properties The mechanical properties at high temperatures, high corrosion resistance is combined with strength and toughness properties in this special bronze alloy.

Application Area Used in the pipe industry bending and correction components (spoons and mandrels), wear resistant machine parts, aircraft landing gear materials.

Heat Treatment Heat treatment is applied.

Mechanical Properties	Hardness	HB	260-310
	Tensile strength	N/mm ²	750-950
	Yield strength	N/mm ²	450-650
	Elongation L=5D	%	4-8
	Modulus of elasticity (20 °C)	GPa	124

Physical Properties	Electrical conductivity	MS/m	5
	Coefficient of thermal expansion (273 - 573 K)	10 ⁻⁶ /K	16
	Thermal conductivity (20 °C)	(W/m.K)	42
	Density	(g/cm ³)	7.5