

CUPRAL 4

Chemical Composition	Al	Fe	Mn	Cu
	12.5-13.5	3.5-5.0	max.2	rest

Code UNS No: C 62500

Material Properties Remarkable because of its hardness and wear resistance together with very good sliding characteristics. High pressure resistance.

Application Area Wear plates, bushings, die rings, screw nuts, slippers, bending tools, guides, forming rolls, inserts, polishing supports, straightening chucks, worm gear wheels, pressure blocks and conic wedges.

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

Mechanical Properties	Hardness	HB	270-320
	Tensile strength	N/mm ²	700-800
	Yield strength	N/mm ²	350-450
	Elongation L=5D	%	~1
	Modulus of elasticity (20 °C)	GPa	120

Physical Properties	Electrical conductivity	MS/m	5
	Coefficient of thermal expansion (273 - 573 K)	10 ⁻⁶ /K	16
	Thermal conductivity (20 °C)	(W/mK)	65
	Density	(g/cm ³)	7.25
