

CUPRAL 8

Chemical Composition	Al	Fe	Mn	Co	Cu
	13.6-14	4.5-5.2	max.2.5	max.1	rest

Code

Material Properties Very good friction properties with an extreme hardness and excellent compressive strength.

Application Area Ideal drawing and forming die material. Deep-drawing of stainless steel, tube and pipe forming, bending and welding rolls, guiding rolls, spare parts wear resistance required.

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

Mechanical Properties	Tensile strength	N/mm ²	600-750
	Hardness	HB	350-380
	Elongation L=5D	%	0-1
	Modulus of elasticity(20 °C)	GPa	120
	Yield strength	N/mm ²	500-600

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
