

# CUPRAL 4M

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Chemical Composition	Al	Ni	Fe	Mn	Cu
	8.5-11	4-6	3-5	Max.1	rest

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Code                      DIN: 2.0966, EN: CW307G, UNS No: C63000

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Material Properties      It is used where higher mechanical properties at elevated temperatures together with corrosion resistant properties are demanded.

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Application Area        Bending dies (shoes, wiper dies and mandrels) for the tube bending industry, wear and guide plates, aircraft landing gear bearings and bushings, gear wheels.

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

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Mechanical Properties	Hardness	HB	170-220
	Tensile strength	N/mm <sup>2</sup>	650-800
	Yield strength	N/mm <sup>2</sup>	270-400
	Elongation L=5D	%	10-16
	Modulus of elasticity (20 °C)	GPa	124

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Physical Properties	Electrical conductivity	MS/m	5
	Coefficient of thermal expansion (273 - 573 K)	10 <sup>-6</sup> /K	16
	Thermal conductivity (20 °C)	(W/mK)	42
	Density	(g/cm <sup>3</sup> )	7.45

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